

University of Toronto
in Mississauga



ERINDALE

COLLEGE

Calendar 1992/93

New Curriculum
See Inside



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Erindale College, is one of the eight Colleges that constitute the Faculty of Arts and Science in the University of Toronto. The College offers the Arts and Science Programme and students may qualify for the University of Toronto Bachelor of Arts, Bachelor of Science or Bachelor of Commerce degree. The admission regulations are those of the University of Toronto.

On January 8, 1975, the College of Arms granted to Erindale College its coat of arms. Green and gold, the colours of Erindale, predominate in the coat of arms representing the natural beauty of the campus. The oak tree comes from the University of Toronto coat of arms with its motto, *Velut arbor aeo*, "May the tree thrive". The wavy blue and silver bars in the chevron signify the location of the College at a major bend in the Credit River and the motto, *Tantum Nobis Creditum*, "So much has been entrusted to us" is a word play on the name of the river.

Erindale College is located thirty-two kilometres west of downtown Toronto on Mississauga Road, in the City of Mississauga. Anyone wishing information about the College may write to: The Registrar, Erindale College, University of Toronto, Mississauga Road, Mississauga, Ontario, L5L 1C6.

The telephone number for information is 416-828-5399.

CURRICULUM RENEWAL

ATTENTION: The NEW CURRICULUM for students admitted as degree students for the first time in the Winter Session, 1992 and thereafter is outlined in this Calendar.

Students registered as B.A. or B.Sc. degree students at Erindale College prior to September 1992 have the following choices concerning degree and programme requirements:

1. Follow the NEW degree requirements listed in Section 5 of this 1992-93 Calendar. If you wish to choose this option, complete a form available in the Registrar's Office.

You must meet ALL the degree and programme requirements as listed in this Calendar, including meeting any new programme enrolment criteria in this Calendar. You cannot substitute the degree and programme requirements stated in previous Calendars for the degree and programme requirements stated in this Calendar. Consult Faculty Advisors for detailed programme information.

2. Follow the degree requirements listed in the 1991-92 Calendar. If you make this choice you must meet ALL the degree requirements as listed in that Calendar. Note, however:

(a) You may follow the old Programme requirements in the 1991-92 (or appropriate earlier) Calendar. Consult Faculty Advisors for detailed programme information.

(b) You may enrol in the NEW Programmes in Section 7 of the 1992-93 Calendar (provided you meet any new Programme Enrolment requirements stated in this Calendar). Consult Faculty Advisors for detailed programme information and to inform them that you wish to follow this option.

Students registered before September 1992 and intending to complete the requirements of the Bachelor of Commerce degree must follow ALL degree and programme requirements of the 1991-92 (or appropriate earlier) Calendar OR may choose to follow ALL degree and programme requirements of the 1992-93 Calendar.

1. **Changes in Programs of Study**
The programs of study that our calendar lists and describes are available for the years to which the calendar applies. They may not necessarily be available in later years. If the University or the College must change the content of programs of study or withdraw them, all reasonably possible advance notice and alternative instruction will be given. The University, however, will not be liable for any loss, damages, or other expenses that such changes might cause.
2. **Change in Courses**
For each program of study offered by the University through the College, the courses necessary to complete the minimum requirements of the program will be made available annually. We must, however, reserve the right otherwise to change the content of courses, instructors and instructional assignments, enrolment limitations, pre-requisites and co-requisites, grading policies, and timetables without prior notice.
3. **Change in Regulations and Policies**
The University has several policies that are approved by the Governing Council and which apply to all students. Each student must become familiar with the policies. The University will assume that he or she has done so. The rules and regulations of the College are displayed here. Applicable University policies are either fully displayed here or listed here. In applying to the College the student assumes certain responsibilities to the University and the College and, if admitted and registered, shall subject to the rules, regulations, and policies cited in the calendar.
4. **Calendar Limitations**
The University makes every reasonable effort to plan and control enrolment to ensure that all of our students are qualified to complete the programs to which they are admitted, and to strike a practicable balance between enrolment and available instructional resources. Sometimes such a balance cannot be struck and the number of qualified students exceeds the instructional resources that we can reasonably make available while at the same time maintaining the quality of instruction. In such cases, we must reserve the right to limit enrolment in the programs, courses, or sections listed in the calendar, and to withdraw courses or sections for which enrolment or resources are insufficient.
5. **Copyright in Course Lectures**
If a student wishes to tape-record, photograph, video-record or otherwise reproduce lecture presentations, course notes or similar materials provided by instructors, he or she must obtain the instructor's written consent beforehand. Otherwise all such reproduction is an infringement of copyright and is absolutely prohibited. In the case of private use by physically disabled students, the instructor's consent will not be unreasonably withheld.
6. **Student Number**
Each student at the University is assigned a unique identification number. The number is confidential. The University, through the Policy on Access to Student Records, strictly controls access to student numbers. The University assumes and expects that students will protect the confidentiality of their student numbers.
8. **Limitation of Enrolment**
University policy stipulates that the number of students in a course may not exceed the number permitted by fire regulations. The College also limits the number of students in any course or any section of a course if the number wishing to take the course should exceed resources available. However, every effort is made to accommodate students in 100-series courses.
9. The University reserves the right to alter the fees and other charges described in the Calendar.
10. This Calendar provides information for Erindale College only. Separate calendars are published by the University of Toronto for the St. George campus and Scarborough College.
11. **ACADEMIC OFFENCES ARE A SERIOUS MATTER.** (see page 169)
12. Receipt of registration material or any college publication, submission of a registration form or payment of fees does not necessarily constitute eligibility to register in the coming session. Students who are suspended as a result of the May or August examinations will be so informed on the Statement of Results and will not be permitted to register. Any fees paid toward the session will be refunded in full.
13. Registration in any session may be cancelled at any time for students with outstanding arrears from a previous session.
14. **No Smoking Policy**
Smoking is *not* allowed in any buildings at Erindale College except in designated areas. Students who wish to smoke should acquaint themselves with the locations of these areas.

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Calendars

1992

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Sessional Dates 1992-1993

1992			
March 15	Last date for new students to apply for admission in order to take A,F,H, and Y courses in Summer Session (first term).	July 17	Deadline to drop H and Y courses from academic record and GPA*.
April 17	Good Friday - University closed.	July 20	Deadline to submit 1992 Winter Session Course Enrolment Forms to Registrar's Office.
April 26	Last date for students to request re-registration for Summer Session (first term).	July 24	Deadline to drop B and S courses from academic record and GPA*.
May 8	Last date for registration for A,F,H and Y courses. After this date, a late registration fee will be imposed.		Date by which students enrolled in Summer Session who expect to graduate at Fall Convocation should notify Registrar's Office and change their programme.
May 11	Summer Session classes begin in A,F,H and Y courses.	August 3	Civic Holiday - University closed.
May 15	Last date to add A,F,H and Y courses.	August 7	Classes end in B,H,S and Y courses; all term work must be submitted by this date.
May 18	Last date for new students to apply for admission in order to enrol in B and S courses in Summer Session.		Deadline to enter 1992 Winter Session course requests on Student Telephone System.
June 1	Victoria Day - University closed.	August 10-14	Final Examinations in B,H, S, and Y courses. Deferred examinations may be held from 1992 Spring Term.
June 5	Last date for new students to apply for admission in order to take A,F,H and Y courses in Winter Session.	August 15	Last date for students to submit a request for re-registration for Winter Session.
June 15	Last date to request transfer to St. George Campus for full-time studies.	Aug 31 - Sept 11	Second Registration Period for 1992 Winter Session.
June 19	Deadline to drop A and F courses from academic record and GPA.*	September 4	Statements of Results mailed beginning today.
June 22-26	Erindale College Convocation.	September 7	Labour Day - University Closed.
June 22	Last date for students to request re-registration for Summer Session (second term).	September 11	Last date for registration; after this date, a late registration fee will be imposed.
June 26	Classes end in A and F courses; all term work must be submitted by this date.	September 14	Winter Session classes begin in A,F,H and Y courses.
June 29 - July 3	Final examinations in A and F courses. Deferred examinations may be held from 1992 Spring Term.	September 18	Deadline for students expecting to graduate at Fall Convocation to notify Registrar's Office and to change their programme.
June 29	First Registration Period for 1992 Winter Session begins.	September 25	Last date to add A,F,H and Y courses.
July 1	Deadline to submit programme enrolment form to Registrar's Office.		Last date to submit Programme enrolment forms to Registrar.
July 6	Reading Week for H and Y courses. No classes.	October 12	Thanksgiving Day - University closed.
	Second term begins.	November 6	Deadline to drop A and F courses from academic record and GPA*.
	Classes begin in B and S courses.		
	Canada Day - University closed.		
	Last date to enrol in B and S courses.		

November 13	Deadline to request corrections to 1991-92 Winter or earlier academic record. After this date no further requests for corrections to this academic period will be considered.	April 9	Good Friday - University closed.
November 23-24	Arts and Science Fall Convocation.	April 12-16	Study period; no tests or examinations may be held in this period.
December 11	First term ends; all term work in A and F courses must be submitted by this date. Last date for students to request re-registration for Winter Session (second term).	April 19 - May 7	Final examinations in B,H, S and Y courses.
December 14-23	Final examinations in A and F courses. Term tests may be held in multi-section H and Y courses. Deferred examinations may be held from August 1992.	May 15	Last date for new students to apply for admission in order to enrol in B and S courses in Summer Session.
Dec 24 - Jan 3	Christmas Holidays - University closed.	May 17	Summer Session classes begin in A,F,H and Y courses.
1993		May 24	Victoria Day - University closed.
January 4	Second term begins.	May 28	Mailing of Statements of Results begins today.
January 15	Last date to add B and S courses.	June 1	Last date for new students to apply for admission for the 1993-94 Winter Session.
January 29	Second fees installment due. Last date to apply for Student Exchange Programmes (Study Elsewhere Programme).		Last date to request transfer to St. George Campus for full-time studies.
February 12	Last date to withdraw from H and Y courses without academic penalty. Last date to request to graduate at the Spring Convocation and to change programme enrolment. Last date to apply for the Study Elsewhere Programme.	June 14-18	Arts & Science 1993 Spring Convocations (tentative).
February 15-19	Reading Week. Deferred examinations may be held from December 1992.	June 25	Classes end in A and F courses; all term work must be submitted by this date.
February 26	Deadline to drop B and S courses from academic record and GPA*. Deadline to request corrections to 1992 Summer academic record.	June 28 - July 2	Reading week for H and Y courses.
March 15	Last date for new students to apply for admission in order to enrol in A,F,H and Y courses in Summer Session.	July 5	Final examinations in A and F courses. Deferred examinations may be held from 1993 Spring Term.
April 8	Second term ends; all term work in B,H,S and Y courses must be submitted by this date.	August 13	Second term classes begin in B and S courses.
		August 16-20	Classes end in B,H,S and Y courses; all term work must be submitted by this date. Final examinations in B,H, S and Y courses. Deferred examinations may be held from 1993 Spring Term.

Note: Course suffixes in this section refer to those which appear in the *Registration and Timetable Information Booklet*.

*After this deadline a mark is recorded for each course, whether course work is completed or not (a "0" is assigned for incomplete work), and calculated into the GPA.

UNIVERSITY AND COLLEGE OFFICERS

Chancellor
R. Wolfe, B.A.

Chairman, Governing Council
R.J. McGavin, B.P.E., M.Sc., Ph.D.

President
J.R.S. Prichard, M.B.A., LL.B., LL.M.

Vice-President and Provost
J.E. Foley, B.A., Ph.D.

**Vice-President, Business Affairs and Chief
Administrative Officer**
B.P. Davies, B. Comm., M.P.A.

**Vice-President, Computing and
Communications**
C.D. Sadleir, B.A.Sc., M.A.Sc., Ph.D., P.Eng.

**Vice-President, Department of
Development and University Relations**
G.C. Cressey, B.Sc., M.S.W.

Vice-President, Human Resources
M.G. Finlayson, B.A., M.A., Ph.D.

Vice-President, Research
J.F. Keffer, B.A.Sc., M.A.Sc., Ph.D., P.Eng.

Vice-Provost
A.H. Melcher, M.D.S., H.D.D., Ph.D., D.Sc.

Vice-Provost, Health Science
A.R. Ten Cate, B.Sc., Ph.D., B.D.S.

Vice-Provost, Staff Functions
D.B. Cook, B.A., M.A., Ph.D.

Assistant Vice-President, Finance
R.G. White, C.M.A.

**Assistant Vice-President, Operations and
Services**
J. Oliver, B. Com., M.Sc.

**Assistant Vice-President (Planning) and
University Registrar**
D.W. Lang, B.A., M.A., Ph.D.

**Assistant Vice-President, Research
Relations & Technology Transfer**
P. Munsche, B.A., M.A., Ph.D.

Assistant Vice-President, Student Affairs
W.D. Neelands, B.A., M.A., M.Div., Th.D.

Secretary of the Governing Council
J.G. Dimond, B.A., M.A., Ph.D.

**Officers of the Faculty of Arts
and Science - 1991-92**

**Officers of Erindale College -
1991-92**

Dean

M.A. Chandler, B.A., Ph.D.

Vice-Dean

R.C. Brown, M.A., Ph.D., F.R.S.C.

Associate Dean

S.S. Tobe, M.Sc., Ph.D., F.R.S.C.

Associate Dean

C.M. Grisé, M.A., Ph.D.

Associate Dean

D.E. Moggridge, M.A., Ph.D.

Secretary of the Faculty

P.D. Harris, M.A.

Faculty Registrar

G.E. Altmeyer, M.A., M.L.S.

Acting Principal

R.L. Beck, M.A., Ph.D.

**Vice-Principal (Academic) &
Associate Dean (Humanities & Part-time
Studies)**

D.A. Trott, B.A., M.A., Ph.D.

**Vice-Principal (Research & Graduate
Studies) & Associate Dean (Sciences)**

J.R. Percy, B.Sc., M.A., Ph.D.

**Vice-Principal (Student Services) &
Associate Dean (Social Sciences)**

P. Silcox, B.A., M.A., Ph.D.

Chief Administrative Officer

P.J. Taggart, B.A., M.A.

College Librarian

J. Snow, B.A., B.L.S.

Registrar

L.T. McCormick, B.A., A.M., Ph.D.

Associate Registrar

K. McLeister, B.PHE, B.Ed.

Director, Development and Public Affairs

H. Benson, B.A.

1 Admission Information

The handbook *A Great Tradition: The University of Toronto* contains complete information on requirements. To obtain this handbook, contact the Office of Admissions, 315 Bloor Street West, Toronto, Ontario, M5S 1A3; telephone 978-2190. The entrance requirements to Erindale are those of the University of Toronto, including the regulations for admission as a non-matriculant.

You may be admitted to the University of Toronto in one of the following ways, depending upon whether you have a sufficiently high standing in your previous academic work:

1. Upon successful completion of the full Ontario Secondary School Diploma (OSSD) (or equivalent) and six Ontario Academic Courses as outlined below.
2. With an acceptable degree from a recognized university.
3. With previous degree studies at a recognized university.
4. As a NON-MATRICULANT STUDENT with less than the full admission requirements.

Candidates Applying from an Ontario Secondary School - 1992-93

- Applicants must be eligible to receive the Ontario Secondary School Diploma (OSSD).
- Applicants must present at least six Ontario Academic Credits (OACs).
- One credit must be English I OAC (ENG0AO) or OAC Anglais I or II.
- Applicants must present credits to satisfy any prerequisites of specific courses or programs in which they intend to enrol. Please consult page 11 of the Erindale College Academic Calendar 1992-1993 and individual course descriptions outlined in Section 8.
- Applicants intending to enrol in science courses should include OAC Calculus and OAC Algebra & Geometry in their subject selections. Chemistry requires OAC Chemistry; Astronomy and Physics require OAC Physics.
- Applicants intending to enrol in Commerce & Finance and Economics should include OAC Calculus.
- Applicants whose native language is not English and who have studied full time in an English language school system for two years or less must present proof of English facility.

In addition to marks in OAC subjects, a student's overall academic record may be taken into consideration. Applications will be considered from candidates whose qualifications do not meet the normal requirements, but such candidates will have to offer written evidence of exceptional ability or of extenuating circumstances.

Admission with Transfer Credit

Candidates who have acceptable standing at other universities, or at other Faculties or Schools of this University including Scarborough College, may be considered for admission with transfer credit provided that the content of the studies for which credit is sought is equivalent to that of courses offered by the Faculty. The Faculty grants a maximum of five transfer credits for studies for which a previous degree or diploma was conferred, and a maximum of ten transfer credits for studies for which a degree has not been conferred.

Note: Regardless of the number of transfer credits granted, at least two of the three 300/400 series courses required for a Three-Year degree, or five of the six 300/400 series courses required for a Four-Year degree must be completed with suitable standing in this Faculty.

Admission as Non-Matriculants

Candidates at least twenty-one years of age who are Canadian citizens or permanent residents of Canada and do not hold the published admission requirements, and who have been resident in Ontario for at least one year, may apply for admission as non-matriculants. They must present proof of age, and must complete, with high standing, at least one of the Pre-University courses offered by Woodsworth College. Two of these courses are offered at Erindale. (Those who have attended a post-secondary institution are not normally eligible for Pre-University courses.) All candidates should consult the Office of Admissions, 978-2190 before enrolling in any Pre-University course.

Admission as Special Students

Special Students are students registered in the College but not proceeding towards a degree offered by the Faculty of Arts and Science. Most special students have completed degree studies and are taking further courses for purposes of their own, including admission to graduate studies.

Admission as Visiting Students

Students with valid Letters of Permission from other accredited North American universities may register at Erindale College as Visiting Students, taking courses for transfer credit at their home university. Visiting Student status does NOT imply automatic future acceptance as either a degree student or a special student. Further information and applications are available from the Office of the Registrar, Room 2122, Telephone: 828-5399.

Admission of Senior Citizens

Canadian citizens or permanent residents of Canada who are at least sixty-five years of age by the first day of the term may apply for admission to the College as part-time Special Students. They do not have to meet the academic requirements for admission and, when admitted, will be exempt from the payment of academic fees. Further information is available from the Office of the Registrar, Room 2122, Telephone: 828-5399.

Admission "On Probation"

Students who have previously studied in other Faculties or Institutions and who do not meet the Faculty's requirements for admission may on appeal be admitted subject to the following conditions:

1. They will be "On Probation" until the end of the session in which they attempt the fourth course in the Faculty, excluding transfer credits.
2. At the end of the session in which the fourth course is attempted they will be assessed as follows:
 - a) students with a Cumulative Grade Point Average (CGPA) of 1.50 or more will continue in good standing;
 - b) students with a CGPA of less than 1.50 but a Sessional GPA (SGPA) of 1.70 or more will continue "On Probation";
 - c) students with a CGPA of less than 1.50 and a SGPA of less than 1.70 will be suspended for one calendar year. On return to the Faculty they will remain "On Probation", and will be under the regulations for academic status outlined on page 28 of the Erindale College Calendar.
3. While on probation students are ineligible to enrol for transfer credit in courses outside of the University.

Applications and Information

Applications and further information are available from:

Office of Admissions
University of Toronto
315 Bloor Street West
Toronto, Ontario
M5S 1A3
Telephone: 978-2190

Office of the Registrar
Erindale College
University of Toronto
Room 2122
Mississauga Road
Mississauga, Ontario
L5L 1C6
Telephone: 828-5400

IMPORTANT DATES

Application should be made as early as possible in the year for which admission is sought. The final dates are:

For Summer Session 1992

First Term: March 15, 1992
Second Term: May 15, 1992

For Winter Session 1992

Full-time and
Part-time studies: June 1, 1992

NOTE: Overseas applicants should apply at least six weeks before these dates.

Candidates who use the application forms issued by the Ontario Universities' Application Centre are warned that the completed forms must be received by the Centre on or before the dates listed above.

Secondary School Prerequisites

The courses listed below have O.A.C. or equivalent prerequisites:

BIO151Y	O.A.C. Biology
BIO202H	O.A.C. Biology
BIO203H	O.A.C. Biology
BIO204H	O.A.C. Biology
BIO205H	O.A.C. Biology
BIO206H	O.A.C. Biology
CHM135Y	O.A.C. Chemistry + O.A.C. Calc + A&G
CHM150Y	O.A.C. Chemistry + O.A.C. Calc + A&G
CSC108H	Grade 12 Mathematics
CSC148H	O.A.C. Calc, A&G
CSC158H	O.A.C. Calc, A&G
FRE150H	O.A.C. French
FSL160H	O.A.C. French
FSL182H	O.A.C. French
GER202Y	O.A.C. German
GER204Y	O.A.C. German
GRK210H	O.A.C. Greek
GRK213H	O.A.C. Greek
GSC219H	O.A.C. Chemistry
ITA200Y	O.A.C. Italian
ITA210Y	O.A.C. Italian
ITA221Y	O.A.C. Italian
ITA230Y	O.A.C. Italian
ITA235Y	O.A.C. Italian
LAT210Y	O.A.C. Latin
LAT211H	O.A.C. Latin
LAT212H	O.A.C. Latin
LAT228Y	O.A.C. Latin
MAT108H	O.A.C. A&G.
MAT132Y	O.A.C. Calc
MAT138Y	O.A.C. Calc/A&G
MAT222H	O.A.C. Mathematics
PHY135Y	O.A.C. Physics + O.A.C. Calc, A&G/FM
PHY140Y	O.A.C. Physics + O.A.C. Calc, A&G/FM
PSY201H	Any O.A.C. Math
PSY252H	Any O.A.C. Math
SPA220Y	O.A.C. Spanish
SPA258Y	O.A.C. Spanish
SUR201H	O.A.C. A&G

Applicants are reminded that they should include in their OAC subject selection the following courses: OAC Calculus and/A & G for first year science courses and the OAC course in the relevant subject.

In addition, applicants intending to study Commerce or Economics are advised to include at least OAC Calculus.

2 Fees and Scholarships

Tuition fees are established by the Governing Council and set out in detail in the *Fees Schedule*. Tuition fees normally consist of two parts: academic fees (including instruction and library) and incidental fees (including Hart House, Health Service, athletics, and student organizations). Additional fees may also be assessed to cover such items as instruments, microscopes and field trips. Fees are subject to change at any time by approval of the Governing Council.

The following information is intended only as a general guide and may be superseded by that in the *Fees Information Booklet*, which should be consulted for accurate, detailed information.

Method of Payment of fees

Payment may be made at any branch of the Royal Bank of Canada, Canadian Imperial Bank of Commerce, Toronto Dominion Bank, Bank of Montreal, Bank of Nova Scotia or Canada Trust. Consult the *Fees Information Booklet* for more information.

Payment may also be made by *Money Order*, *Bank Draft* or *Certified Cheque* in Canadian funds payable to "The University of Toronto"; all cheques must be *Certified*. Cash is accepted only if payment is made in person at the Fees Department. Payment may be mailed or made in person at the Fees Department, 215 Huron St., Toronto, M5S 1A2.

Payment Deadlines (For the Winter Session)

Fees are due prior to registration and may be paid in full or a minimum payment consisting of 60% of academic fees and 100% of incidental fees may be made as indicated on the *Fees Schedule*. All accounts must be paid in full by January 15th.

In order to avoid delays and long line-ups students are advised to pay their fees early.

All outstanding balances, regardless of the source of payment, are subject to a service charge of 1 1/2% per month compounded, which is first assessed on October 15th and on the 15th of each month thereafter until the account is paid in full.

Students who have outstanding accounts may not receive official transcripts or diplomas and may not re-register at the University until these accounts are paid. Registration of students owing fees will be cancelled at any time.

Sanctions on Account of Outstanding Obligations

The following are recognized University obligations: (a) tuition fees; (b) academic and other incidental fees; (c) residence fees and charges; (d) library fines; (e) bookstore accounts; (f) loans made by Colleges, the Faculty or the University; (g) Health Service accounts; (h) unreturned or damaged instruments, materials and equipment; (i) orders for restitution of property or for the payment of damages and fines imposed under the authority of a divisional discipline policy in accordance with the *General Principles for Divisional Discipline Powers* approved by the Governing Council, April 1986.

The following academic sanctions will be imposed on Arts and Science students with outstanding University obligations which have been reported to the Faculty in a timely and accurate manner:

1. Official transcripts of record will not be issued.
2. The University will not release either the official document (called the diploma) which declares the degree earned, nor provide oral confirmation or written certification of degree status for external enquirers.
3. Registration will be refused or withdrawn to continuing or returning students.

Payments made by continuing or returning students will first be applied to outstanding University debts and then to current fees.

Fees for Foreign Students

In accordance with the recommendations of the Government of Ontario, certain categories of students who are neither Canadian citizens nor permanent residents of Canada are charged academic fees of approximately \$6,700.00 per session. Refer to the *Fees Schedule* for current fees charges.

Scholarships are awarded on the basis of academic merit and fall into the following categories:

1. Admission Scholarships:
Value: \$800.00-\$2,000.00
2. In-Course Awards:
Value: \$50.00-\$2,000.00
 - a) Awards of a General Nature (not restricted to any one discipline)
 - b) Division of Humanities Awards
 - c) Division of Sciences Awards
 - d) Division of Social Sciences Awards
 - e) University Awards
 - f) Faculty of Arts and Science Awards
 - g) The Dean's Honour List
 - h) Faculty Scholar

The nature of the awards may be monetary, book prizes, medals and in some cases a certificate. Full information on scholarships and other awards is available from the Scholarships and Financial Aid Office, Room 3095, South Building (828-5234).

Government Financial Aid

The Ontario Student Assistance Program (OSAP) consists of six plans:

- The Ontario Study Grant Plan
- Canada Student Loans Plan
- The Ontario Student Loans Plan
- The Part-time Student Loans Plan (Canada Student Loans)
- The Ontario Special Bursary Plan
- The Ontario Work-Study Plan

Information concerning the eligibility and assessment criteria may be obtained from the Office of Student Awards, 214 College St., Toronto (978-7950). Application forms are available in Room 3095, Erindale College or from the Office of Student Awards. Students from other Canadian provinces should apply through their provincial financial aid authority.

Bursaries

Supplementary financial assistance is available to students on the basis of financial need. Application forms may be obtained from the Scholarships and Financial Aid Office, Room 3095, Erindale College.

Students may wish to apply for one of the bursaries offered through the Office of Student Awards, 214 College Street, Toronto (978-7950). Please see the Scholarships and Financial Aid notice boards outside Room 3095 and in the North Building near the Cafeteria.

Use of Awards to Pay Fees

a) *Ontario Student Assistance Programme (OSAP)*

Students may pay their fees out of their own funds without jeopardizing their Government assistance. Students wishing to use their Government awards to pay their fees should enclose the Notice of Assessment, which they received from the Ministry of Colleges and Universities, with their fees invoice. Payment of fees will then be deferred until the loan and/or grant is received by the student.

Students who have applied for OSAP but have not received their Notice of Assessment should contact the Office of Students Awards or the Scholarships and Financial Aid Office at Erindale College to obtain a deferral form. The signed deferral form must be enclosed with the fees invoice and sent to the Fees Office, 215 Huron Street, Toronto, Ontario, M5S 1A2. Fees deferrals must be submitted well in advance of payment deadlines published in the Registration Booklets.

RETURNING STUDENTS: Fees deferrals will be available only for those students who applied for OSAP before June 15, 1992.

NEW STUDENTS: O.S.A.P. applications should be submitted before June 30, 1992 to qualify for a fees deferral..

b) *Scholarships and Bursaries*

The Fees Department will credit students' fees accounts with any scholarships or bursaries paid by or through the University. Indicate on the fees invoice the amount and source of the scholarship and send to the Fees Office as above. After deduction of fees, any remaining balance will be refunded after the start of classes.

Recognition of Exceptional Academic Achievement

Faculty Scholar

This designation is given to students in the Faculty of Arts and Science having a Cumulative Grade Point average of 3.50 or higher, at the end of each session in which the fifth, tenth, fifteenth and twentieth course has been passed. (For students enrolled in the Commerce and Finance Programme, the designation is given when the fifth, eleventh, seventeenth and twenty-third course is completed.)

A certificate signed by the Dean of the Faculty will be sent to each student. Students who feel they satisfy the above criteria but do not receive the certificate at the end of the appropriate session, should write the Faculty Registrar, Faculty of Arts and Science, Sidney Smith Hall, 100 St. George St., Toronto, Ont., M5S 1A1.

Dean's Honour List

The criteria are the same as for the Faculty Scholar. A certificate signed by the Principal of Erindale College will be sent to eligible students.

Distinction

Students who graduate with a Cumulative Grade Point average of 3.20 to 3.49 are described as graduates "With Distinction".

High Distinction

Students who graduate with a Cumulative Grade Point average of 3.50 or above are described as graduates "With High Distinction".

3 Student Services

College Registrar

The Registrar's Office is the focal point for information and advice of all kinds and should be consulted whenever students have questions concerning rules, regulations, degree requirements or problems of a personal or academic nature.

Registrar - Dr. L.T. McCormick, Room 2122, South Building, Telephone 828-5399

Academic Counselling

Academic counselling is available in the Registrar's Office. Individual counselling is available throughout the year by appointment. Small group counselling is available for new students during July and August.

Students who have problems relating to the conduct of courses (lectures, tutorials, evaluation, work-load, etc.) and who find that they cannot resolve these difficulties with the instructor concerned, can obtain advice and assistance either from the Faculty Advisor, or from the Director of Academic Counselling for the College. The Director of Academic Counselling for Erindale is the Registrar, Dr. L.T. McCormick.

Faculty Advisors and Discipline Representatives can give detailed advice on individual courses and programmes that are centred in their Departments. Their names will be found at the beginning of the essay of each discipline in this Calendar. Many disciplines publish brochures or handbooks which are available at their offices. Students should also consult their instructors.

Personal Counselling

This student service provides personal counselling for personal problems that students may encounter during their undergraduate years of study. Talking with a counsellor can help students see their own situation more clearly and find ways of coping with personal and interpersonal problems. This is a strictly confidential service. Room 2095A, 828-3944.

Teaching - Learning Centre

Located in Room 3091 in the South Building, the Teaching-Learning Centre offers free advice about writing, learning and teaching. Hours: Monday - Thursday, 10 - 12 noon, 1 - 4 p.m. September to May. An appointment is required. Telephone 828-5444

Regular services include:

Writing Laboratory

Individual help and small group seminars on:

- assessing your writing strengths and weaknesses
- organizing essays and reports
- improving writing style
- avoiding grammatical errors
- study skills

START Seminars

The Teaching - Learning Centre, in conjunction with the Library, offers seminars on researching and planning your essays and reports.

In-Class Seminars and Teaching Skills

A Teaching - Learning Centre writing specialist will speak to students in-class about written assignments. Teaching assistants can get advice on teaching techniques and on setting assignments.

For additional information visit room 3091, South Building, or telephone 828-3858.

Library

The Erindale College Library has a collection of books, journals, maps, slides and other materials. Of special note are the CD-ROM data-bases, the largest number available in one location at the University of Toronto. A Special Services Resource Room (2109B) provides equipment such as a Kurtzweil machine. Excellent staff are available to assist the student with the use of the Library's resources and facilities.

In addition to the College Library, students and faculty have access to the holdings of the University of Toronto libraries on the St. George Campus. There is a regular book delivery service to the Erindale Campus.

Loan Desk 828-5236

Information Desk: 828-5237

Librarians

E. Goettler, B.A., M.L.S.
M. Hawthorn, B.A., M.L.S.
N. Lypowucky, B.A., B.L.S.
D. McLean-Lowe, B.A., M.L.S.
R. McCarthy, B.A., M.L.I.S.
S. McCaskill, B.A., B.L.S., M.L.S.
J. Seel, B.A., B.L.S., M.L.S.

Career Centre

Career Exploration:

individual appointments and group workshops to help you with career and job search concerns. Resumes/applications critiqued.

Career Information:

a library full of materials on careers, employment opportunities, calendars on educational programs. Watch for Professional School Fair in October and Careers Night in January. Participate in our Extern Career Experience Program in Reading Week or May.

Permanent Employment Services

On-Campus Recruitment Programme: for permanent and summer employment. Representatives from medium to large organizations visit the University of Toronto to recruit graduating students and students for summer jobs. Check early in September.

Permanent Employment Service:

lists current permanent job openings available to new graduates year round.

Summer Employment Services:

begin to receive listings as early as September. Many Government Employment Programmes are advertised through this service.

Part-time Employment Listing Service:

lists part-time jobs available throughout Toronto and Mississauga areas and on the University of Toronto campuses.

<i>St. George Campus</i>	<i>Erindale Campus</i>	<i>Scarborough Campus</i>
Koffler Centre 214 College St (College & St. George) 978-8000	South Bldg. Room 3094 828-5451	Student Serv. Room S-302F 287-7552

Services to Persons with a Disability

Erindale is committed to providing services, programs, resources and auxiliary aids necessary to enable students with disabilities an equal opportunity of pursuing a university education. The Special Services staff assist students with disabilities to integrate into university life by liaising with faculty, staff and community resources as required.

The rapidly expanding program for students with learning disabilities includes Learning Disability Specialists on staff who meet with students to assess and recommend specific services.

A resource room, located in the library, contains a variety of technical devices to aid students in their research. Included is a Kurtzweil Optical Scanner, a Closed Circuit Television and two IBM Personal System/2 computers equipped with a variety of specialized software.

For further information contact 828-3847.

University Health Service

The University Health Service offers a comprehensive medical service for students on the Erindale Campus; treatment and advice are available throughout the year. Students are encouraged to discuss concerns about contraception, substance abuse, unwanted pregnancies, sexual life and venereal disease. Contraceptive medications are available at a modest cost.

Psychiatric consultation and counselling to assist students with emotional and social problems are available.

Students seek counselling for a wide range of concerns, including feelings of despondency, apathy, inadequacy or inferiority and with problems in areas of sexuality, substance abuse, parental conflict, dating, peer relationships, inability to concentrate and examination anxiety.

The primary responsibility of the Health Service is to the student; therefore, ALL CONSULTATIONS, MEDICAL AND PSYCHIATRIC, ARE STRICTLY CONFIDENTIAL and form no part of any university record. Information acquired from students will not be given to anyone at any time without the written permission of the student.

Office hours:

Monday to Friday 9:00 a.m. - 5:00 p.m.

Telephone 828-5255

After 5:00 p.m. - Telephone 978-8030

Athletics and Recreation

The Department of Athletics and Recreation in cooperation with the student-run Erindale College Athletic and Recreation Association (ECARA) plan and operate programmes for the Erindale College community. The Department is responsible for the maintenance and efficient operation of athletic facilities which include a gymnasium, weight training centre, teaching/dance studio, three squash courts, and a recreation room.

Outdoor facilities include two playing fields, softball diamond, two sand volleyball courts, six tennis courts (four lighted) and outdoor swimming pool. A wide range of sport, dance, fitness, and martial arts instructional programmes in addition to wellness activities and services are offered by the Athletics Department. Support from athletics staff is provided to ECARA student-run programmes which include: On-campus intramural sport leagues and tournaments; interfaculty team competition against other U of T colleges and faculties on the downtown St. George Campus; sport and recreational clubs; as well as special event programming such as the Annual ECARA Bed Race and the Athletic Awards Banquet. In addition to the facilities and programmes on the Erindale Campus, students may utilize the same on the St. George Campus.

For inquiries regarding Athletics and Recreation, telephone, 828-5268.

Residences

With 240 places reserved for freshmen and 421 reserved for senior students, Erindale College boasts the largest on-campus residence facility at the University of Toronto. Situated on the beautiful treed campus, Erindale residents enjoy the community atmosphere created by the commercial townhouse development in which they live.

Depending on the unit, either four or six students share one house on a cooperative basis. Not being restricted by a food plan, students find they can save at least \$600 per year by purchasing and preparing their own food. The North Building cafeteria, Spigel Hall and Greenery are also available for meals. Each townhouse is fully furnished and equipped with a refrigerator and stove. Living room, storage room, kitchen and dining area are on the main floor; bedrooms and a bathroom are on the upper level. Laundry facilities are also available.

All residences are within minutes of classrooms, athletics and other student services. Once in residence, all students are eligible to apply the following year after meeting the academic and administrative requirements.

There are 84 2-bedroom apartments (800 square feet) for married and graduate students at an approximate cost of \$680 per month plus hydro. Two units are equipped for disabled persons.

For 1991/92 residence fees were \$2390, for freshmen, from September to May, boasting one of the lowest rates in Ontario. For the summer months, from May to September, residence is approximately \$1000. Conference income from the summer assists in preserving affordable, well-maintained houses.

An off-campus housing service is run by the Residence Centre in the summer months (approximate cost \$300-\$350 per room) in suitable local homes.

We also have recently renovated Thomas Cottage, a cosy 2 bedroom fully equipped/furnished cottage, which is available on campus, for visiting parents, at \$60.00/night.

Colman Lounge is being renovated to provide a safe, fun place for studying, relaxing and doing laundry.

For further information contact the Residence Office, Colman Place, Erindale Campus, 3359 Mississauga Road, Mississauga, Ontario L5L 1C6 or telephone 828-5286.

Office of the University Ombudsperson

As part of the University's commitment to ensuring that the rights of its individual members are protected, the University Ombudsperson investigates grievances or complaints against the University, or anyone in the University exercising authority, from any member of the University. The Ombudsperson offers advice and assistance with problems unresolved through regular University channels, and can recommend changes in academic or administrative procedures where this seems justified. In handling a grievance or complaint, the Ombudsperson has access to all relevant files and information, and to all appropriate University officials. All matters dealt with by the Ombudsperson are handled in strict confidence unless the individual involved approves otherwise. The Ombudsperson is independent of all administrative structures of the University.

For further information, write or telephone the Office of the University Ombudsperson, University of Toronto, 16 Hart House Circle, Toronto, Ontario, M5S 1A1. (Telephone: 978-4874).

Sexual Harassment Office

Sexual harassment is unwanted sexual attention or sexual coercion. It may take the form of verbal innuendo; unwelcome references to someone's sex, sexual orientation, appearance or lifestyle; jokes; suggestive or obscene remarks or gestures; unwanted sexual invitations and advances, including pressure for dates; or unwanted physical contact. It may be a single incident, or part of a continuous barrage of offensive remarks or actions. The offender may be a professor or a fellow student.

The University of Toronto has a Sexual Harassment Policy and a complaints procedure to deal with complaints or enquiries *in complete confidence*. The Sexual Harassment Education, Counselling and Complaint Office is at 455 Spadina Avenue (at College), Room 302. The Sexual Harassment Officer counsels those involved in sexual harassment complaints and educates the university community on this issue. For information, call 978-3908. Office hours are from 9 a.m. to 5 p.m. Monday-Friday, but appointments can be made outside these times if necessary. The Officer also visits the Erindale campus regularly, and can make appointments to see you at Erindale or downtown.

You can phone or visit the Sexual Harassment Office to get more information, to arrange educational workshops, or to talk about a situation you are in. You don't have to give your name or to embark on any proceedings if you don't choose to do so; anything you say will be treated as strictly

confidential. You can also contact the Office if you have questions or concerns about allegations of sexual harassment that have been made against you.

The Sexual Harassment Office can also give you details about counselling and legal services, public awareness and advocacy groups, and resources for people who have been sexually harassed or sexually assaulted.

International Student Centre - ISC

The International Student Centre is a meeting place for students from Canada and abroad. It provides special services to foreign students and to Canadians interested in work or study abroad.

New students offered admission will receive information to help them prepare to come to Canada and orientation programmes are offered in August and September. ISC also provides information and advice on a wide variety of non-academic concerns. It offers an English language programme, home country employment information and a newsletter.

The Centre's work and study abroad information service (INTERCHANGE) provides information to Canadians about the wide range of opportunities for experience outside Canada.

Contact: International Student Centre, 33 St. George Street, Toronto, Ontario, Canada M5S 2E3. Telephone: (416) 978-2564.

4 Student Organizations

The Students' Administrative Council (SAC)
SAC is the central student government for all full-time undergraduates. Members are elected from their local college or faculty.
Office: 12 Hart House Circle (978-4911).

The Erindale College Student Union (ECSU)
The Erindale College Student Union serves as an important link between students and the administration of the College and University. ECSU owns and operates the Blind Duck Pub, and CFRE-Radio Erindale. ECSU also sponsors concerts, lectures, and various student clubs.

All full-time undergraduate students of the College are members of ECSU and are entitled to attend meetings, sit on committees and vote in the general election of officers to the Union. *The ECSU office is open all year, (828-5249).*

The Association of Part-Time Undergraduate Students (APUS)

The Association of Part-time Undergraduate Students represents all part-time undergraduate students at the University of Toronto.
Office: Room 1089 Sidney Smith Hall, (978-3993).

The Erindale Part-Time Undergraduate Students' Association (EPUS)

EPUS is an independent organization of part-time students at Erindale College. It is funded through the APUS fees paid by Erindale part-time students. EPUS has a four-person Executive Committee and operates on a class representatives system similar to that of APUS.
Office hours are:

Monday - Thursday: 1:00 p.m. to 9:00 p.m.
Office: Room 116, North Building (828-5422).

The Erindale College Athletic and Recreation Association (ECARA)

ECARA is a student organization which plans and operates athletic and recreation programmes for the Erindale College Community. Programmes include: On-campus intramural sport leagues and tournaments; interfaculty team competition against other U. of T. colleges and faculties; sport and recreational clubs; as well as special event programming such as the Annual ECARA Bedrace and the Athletics Banquet. ECARA also provides many leadership development opportunities such as sport commissioners, coaches, officials, and event volunteers. For those students who take on these challenging positions, their involvement can be a valuable addition to their general educational experience at Erindale.

All full and part-time undergraduate students of the College are fee paying members of ECARA and entitled to vote in the general election of athletic representatives to ECARA Council. The ECARA Council Office is open Sept - May (828-5498). Call the Athletics Hotline at 828-5268 for updated information year round.

5 Degree Requirements

THE DEGREE REQUIREMENTS IN THIS CALENDAR APPLY TO DEGREE STUDENTS WHO ARE ADMITTED TO THE 1992 WINTER SESSION.

Students registered as B.A. or B.Sc. degree students at Erindale College prior to September 1992 have the following choices concerning degree and programme requirements:

1. Follow the NEW degree requirements listed in Section 5 of this 1992-93 Calendar. If you wish to choose this option, complete a form available in the Registrar's Office.

You must meet ALL the degree and programme requirements as listed in this Calendar, including meeting any new programme enrolment criteria in this Calendar. You cannot substitute the degree and programme requirements stated in previous Calendars for the degree and programme requirements stated in this Calendar. Consult Faculty Advisors for detailed programme information.

2. Follow the degree requirements listed in the 1991-92 Calendar. If you make this choice you must meet ALL the degree requirements as listed in that Calendar. Note, however:
 - (a) You may follow the old Programme requirements in the 1991-92 (or appropriate earlier) Calendar. Consult Faculty Advisors for detailed programme information.
 - (b) You may enrol in the NEW Programmes in Section 7 of the 1992-93 Calendar (provided you meet any new Programme Enrolment requirements stated in this Calendar). Consult Faculty Advisors for detailed programme information and to inform them that you wish to follow this option.

Students registered before September 1992 and intending to complete the requirements of the Bachelor of Commerce degree must follow ALL degree and programme requirements of the 1991-92 (or appropriate earlier) Calendar OR may choose to follow ALL degree and programme requirements of the 1992-93 Calendar.

Degrees Offered

The faculty offers the following degrees:

- Bachelor of Commerce;
- Honours Bachelor of Arts;
- Bachelor of Arts;
- Honours Bachelor of Science;
- Bachelor of Science.

Students may choose to receive either the Bachelor of Commerce, Honours B.A., or Honours B.Sc., or B.A. or B.Sc. degree after completing the appropriate requirements listed below. Whether a student receives a B.A. or a B.Sc. depends on the Programme(s) the student completes. In the Programme Section each Programme lists the degree received (for instance, "LINGUISTICS (B.A.)", "GEOLOGY (B.Sc.)", etc.).

The word "course" means a "full course" or two "half courses"; in the Programme Section and in the Course Section, "full courses" are listed as Y courses, and "half-courses" are listed as H courses. In order to "obtain standing" in a course, a student must receive at least a passing grade (50%) in that course.

Bachelor of Commerce Degree (B.Com.)

To qualify for a Bachelor of Commerce degree, a student must:

- (a) Obtain standing in at least 20 full-course equivalents, including no more than six 100-series courses
- (b) Complete the requirements of the Specialist Programme in Commerce and Finance (see Section 7)
- (c) Complete the Distribution requirement which consists of at least one full course equivalent from each of the following Divisions: Humanities, Science, Social Science (see page 23)
- (d) Complete five full course equivalents from disciplines other than Management (MGT) and Economics (ECO); (courses taken to fulfil (b) and (c) may be also counted towards meeting this requirement)
- (e) Obtain standing in at least eight 300- or 400-series courses (no more than two transfer credits may be counted)
- (f) Achieve a cumulative GPA of 1.85 or more.

Requirements for an Honours B.A.

(Hon.B.A.) or Honours B.Sc. (Hon.B.Sc.)

The degree received depends on the Programme(s) a student completes. To qualify for an honours degree, a student must

- (a) Obtain standing in at least 20 courses meeting the following criteria:
 1. No more than six courses may be 100-series;
 2. At least eight courses must be 300/400-series (no more than two 300/400-series transfer credits may be counted toward these eight);
 3. No more than fifteen courses may have the same three-letter designator;
- (b) Complete the requirements of: a Specialist Programme; or two Major Programmes; or a Major and two Minor Programmes; or three Minor Programmes (see Notes below and Section 7 for detailed information)
- (c) Complete the Distribution requirement which consists of one full course from each of the following divisions: Humanities, Science, Social Science (see page 23)
- (d) Obtain a Cumulative GPA of 1.85 or more.

NOTES:

1. Acceptable programme combinations for an Honours degree:

1 Specialist	
2 Majors	(12 different courses)
3 Minors	(12 different courses)
1 Major, 2 Minors	(12 different courses)
2 Specialists	(12 different courses)
1 Specialist, 1 Major	(12 different courses)
1 Specialist, 1 Minor	(12 different courses)
2 Majors, 1 Minor	(12 different courses)
2 Specialists, 1 Minor	(12 different courses)
1 Specialist, 1 Major, 1 Minor	(12 different courses)
2. To be eligible for an Honours B.Sc. degree, students must complete the programme requirement component of the degree requirements in one of the following ways:
 - (i) if completing one Specialist, it must be a B.Sc. Specialist programme;
 - (ii) if completing a B.Sc. Specialist and a B.A. Specialist, students may choose the type of Honours degree they want;
 - (iii) if completing two Majors, one must be a B.Sc. Major;
 - (iv) if completing either three Minors or a Major and two Minors, any two of three must be B.Sc. programmes.
3. To be eligible for an Honours B.A. degree, the converse of Note #2 applies.

Requirements for a B.A. or B.Sc. Degree

The degree received depends on the Programme(s) a student completes. To qualify for a B.A. or B.Sc., a student must

- (a) Obtain standing in at least 15 courses meeting the following criteria:
 1. No more than six courses may be 100-series;
 2. At least four courses must be 300/400-series courses (no more than two 300/400-series transfer credits may be counted towards these four);
 3. No more than ten courses may have the same three-letter designator;
- (b) Complete the requirements of a Major Programme or two Minor Programmes (see Notes below and Section 7 for detailed information)
- (c) Complete the Distribution requirement which consists of at least one full course from each of the following divisions: Humanities, Science, Social Science (see page 23)
- (d) Obtain a Cumulative GPA of 1.50 or more.

NOTES:

1. Acceptable programme combinations for a B.A. or B.Sc. degree:

1 Major	
2 Minors	(8 different courses)
1 Major, 2 Minors	(12 different courses)
2 Majors	(12 different courses)
1 Major, 1 Minor	(8 different courses)
3 Minors	(12 different courses)
2. To be eligible for a B.Sc. degree, students must complete either one B.Sc. Major programme or two B.Sc. Minor programmes.
3. To be eligible for a B.A. degree, students must complete one of the following: one B.A. Major; or two Minors, at least one of which is a B.A. Minor.
4. Students with a B.A. or B.Sc. degree who continue their studies will not graduate a second time but will be able to exchange the 15-course diploma for an Honours diploma. A B.A. or B.Sc. degree leads only to an honours degree in the same field, i.e., a B.A. leads only to an honours B.A. etc., although five courses taken towards a degree in one field may, on petition, be counted towards a degree in a different field.

Programme Requirement

All degree students entering Erindale must enrol in a programme when they have passed their fourth course. If admitted with transfer credit for four courses or more, they must do this when they first register in the Faculty.

The new Curriculum offers the following types of programmes:

Specialist Programmes – consisting of nine to fourteen courses including at least four 300/400 series courses one of which must be at the 400+ series

Major Programmes – consisting of six to eight course including at least two 300/400 series courses

Minor Programmes – consisting of four courses including at least one 300/400 series course (some Science Minors may have a Mathematics Minor as a corequisite)

Entry to programmes is based on successful completion of four courses including prerequisite courses. Some programmes also require specific standing in individual courses and/or a minimum grade point average. See individual programme outlines in Section 7 for detailed information.

The maximum allowable number of programmes that will be certified on a student's transcript will be three.

Any variation made in Programme details for individual students does not in any way affect the Faculty's Degree requirements. Students should be aware that completion of the Programme Requirement does not ensure that Degree Requirements have been met. Students are required to complete 8 full course equivalents at the 300/400 level for an Honours degree or Bachelor of Commerce (4 for a B.A. or B.Sc. degree) including courses required for a programme. If the programme requires fewer courses at this level, any other 300/400 level courses may be counted toward fulfillment of this requirement.

Distribution Requirement

To qualify for a degree, students must complete at least one full or two half courses from each of the following divisions (Humanities, Social Sciences, Sciences)

Humanities

Classics
Drama
English
ERI112Y
Fine Art
French
German
History
Italian
Linguistics
Philosophy
Religious Studies
Spanish

Social Sciences

Anthropology*
Commerce
Economics*
Geography*
Political Science
Sociology*
SUR251H,352H,353H,
SUR454H,455H,456H,458H
WDW260Y
WRI305H

Sciences

ANT203Y,228H,229H,231H,311H,311Y,312H,
327H,330H,332Y,334Y,339H,412H,415H,415Y,
416H,430Y,433H,434H,438H,439Y
Astronomy
Biology
Chemistry
Computer Science
ECO220Y
Geological Sciences
GGR117Y,217Y,219H,276H,304H,
305H,307H,312H,313H,316H,319H,335H,
355H,374H,376H,377H,379H,479H,491Y
JBG230Y
Mathematics
Physics
Psychology
SOC201Y/300Y
Statistics
Surveying Science*

*Some courses offered by the Social Science departments are designated as Science credits, they are listed individually under Sciences.

*Some Surveying Science courses have been designated as Social Sciences for the purpose of the distribution requirement they are listed in the Social Science column.

6 General Regulations

Registration refers to the process of establishing membership in the College for the purpose of attending courses and following a Programme of Study.

Students register by submitting a Registration form listing the courses to be undertaken or by entering their course requests using the Student Telephone Service and by providing proof of payment of their fees before the last date to register. (See Sessional Dates).

Detailed information about registration procedures is outlined in the *Timetable and Registration Information* booklet issued to students in June.

The last dates for registration in and withdrawal from courses are in the "Sessional Dates" section of this calendar and on the front cover of the *Timetable and Registration Information* booklet.

Any student allowed to register after the end of the registration period will be charged a late registration fee of \$43.00 for the first day plus \$5.00 for each additional day thereafter.

Students should be aware that permission to register in the Faculty after the end of the registration period may be refused at any time.

Reregistration refers to former students who have not registered in the Faculty in two or more consecutive sessions (Winter or Summer) and now wish to resume their studies. They may request reregistration by completing a Request for Reregistration form. Consult the Sessional Dates for the deadline for submitting such requests. Students who, during the absence from this University, studied elsewhere and now wish transfer credit should follow the procedure outlined in the section "Courses of Other Universities".

Deletion of Courses

Students who are deleting a course or courses must do so by completing a Course Change form or otherwise notifying the Registrar in writing, or by using the Student Telephone Service, before the final date to drop courses as specified in the Sessional Dates.

Students are Responsible for Monitoring their Records

Students who are still registered in a course after the final date to withdraw will receive a grade for that course, even if they have never attended, have stopped attending or did not write the final examination. They are responsible for applicable tuition fees regardless of any subsequent changes.

Financial Implications of Deletion of Courses

Students who drop a course or courses before the deadline may be entitled to a fees refund, the amount of which is determined by the date the **Course Change form or other written notification is received by the Registrar or as recorded by use of the Student Telephone Service**. The amount of the fees refund is based on the information outlined in the *Schedule of Fees*. Students should pay strict attention to these dates to ensure that they receive the maximum refund.

Please Note:

Even if you do not attend or stop attending courses, you will be required to pay all fees owing. Even a successful petition for late withdrawal will not eliminate the obligation to pay full fees.

Withdrawal from a Session

Students who find it necessary to stop attending **all** of their courses are considered to have withdrawn from the University for the Session. They must notify the Registrar, in writing, or by using the Student Telephone Service, of their intent before the last date to drop courses. Merely ceasing to attend classes will result in a grade of zero for each course. Before a refund of fees will be issued to students withdrawing from a Session, they must:

- pay any outstanding fees,
- return any books to the Library and pay any outstanding fines,
- surrender their student card to the Registrar,
- vacate any laboratory or athletic lockers and return any equipment in their possession.

Student Telephone Service

Students have access to the University of Toronto Student Telephone Service. It allows students to use a touch-tone telephone to perform many procedures associated with the enrolment process. The system can be used to add and drop courses, change sections, list the current course enrolments and record degree requests. All students pay a sessional fee which is refundable if the Service is not used during the session. A Student Telephone Service Rebate form must be completed and submitted to the Registrar's Office before the end of the final examination period of the applicable session. Refer to the *Timetable and Registration Information* booklet for further details.

Transfer to a St. George College

Students who wish to transfer to a College on the St. George campus for full-time studies must submit their written request to the Registrar before June 1. They must have completed the equivalent of four full courses and have a CGPA of at least 2.50. Refer to the Information Sheet available from the Registrar's Office for further details. Transfers to Woodsworth College for part-time may be requested by writing to the Registrar.

Responsibilities of Students

While Departmental counsellors and the Registrar's Office staff are always available to give advice and guidance, it must be clearly understood that it is the *responsibility of the student* to ensure that:

- a) course selection is correct and complete,
- b) they have complied with all prerequisite, exclusion and corequisite requirements,
- c) programme, distribution and other degree requirements have been met,
- d) deadlines and other regulations have been observed.

If there is any doubt, students should seek guidance from a responsible officer of the College. Misunderstanding, misapprehension, or advice received from another student will not be accepted as a reason for exemption from any regulation, dead-line, programme or degree requirement.

Courses

The word "course" is used in two senses. In reference to a single course (such as "standing in a course" etc.) "course" refers equally to a full course or a half course. In reference to a given number of courses (such as the requirement of obtaining standing in at least fifteen courses for a three-year degree) "courses" refers to *full* courses or the equivalent number in *full* and *half* courses.

To "pass a course" or "obtain standing in a course" normally means to obtain a mark of 50 or more in that course ("Credit" in "Credit/No Credit" courses).

Choosing Courses

- Students may plan their own programme, selecting from among all courses offered, subject to the following rules:
 - The degree and programme requirements, distribution requirements and other regulations set out in the Calendar and its supplements must be satisfied.
 - All prerequisite, corequisite and exclusion requirements must be met.
 - No more than six 100 series courses may be taken for degree credit. Additional courses completed will be designated as "extra" and will not count for degree credit or be included in the grade point average.
- Students may not repeat any course in which they have already obtained standing. The only exception occurs when students require a 100 series course with a specific grade higher than "D" for entry to a limited enrolment programme. Students may repeat such a course *once* as an "extra" course, which will have no effect on the student's status or Grade Point Average. There are no supplemental examinations or provisions to "upgrade" a mark.

Prerequisites, Corequisites, Exclusions

Exclusion: Students may not enrol for degree credit in a course which lists as an exclusion a course that they are taking or which they have already passed. The second course taken will be listed as an "extra" course.

Prerequisite: A course (or other qualification) required as preparation for a course. If students consider that they have equivalent preparation, they may ask the Department concerned to waive the stated prerequisite. Students who enroll in a course for which they lack the prerequisite may be removed from the course at the request of the Department.

Corequisite: A requirement to be undertaken concurrently with another course. The corequisite will be waived if a student has previously obtained standing in it or if the Department consents.

A student who withdraws from a course must also withdraw from any course for which it is a corequisite unless the Department giving the latter course agrees to waive the corequisite.

Recommended Preparation: Background material or courses which may enhance a student's understanding of a course.

Course Loads

Students may proceed towards the degree at a rate of their own choosing, and should attempt to balance their course load between the two terms of any session.

The recommended course load for full-time students in the Winter Session is five courses. The maximum course load in the Winter Session is six.

A full-time student who is on Academic Probation may take no more than five courses in the Winter Session.

The maximum course load during the Summer Session is no more than 3 courses.

A part-time course load is defined by enrolment in less than 4.0 courses in a Winter Session.

To calculate Session and Term course loads, students should consult this Calendar together with the Timetable and Registration Information booklet. Calendar course descriptions bear the suffix "Y" (a full course), or "H" (a half-course). The course suffixes, "A,B,F,S", appear only in the Timetable; for a full explanation, see Key to Course Descriptions, Section 8. The following table may be helpful in calculating course loads:

Suffix	Load Per Session	Load per Term
Y	1	1
H	1/2	1/2
A, B	1	2
F, S	1/2	1

Permission to take Courses on the St. George Campus

A student may take a course on the St. George Campus, provided that:

- five full courses have been completed at Erindale,
- neither the course nor an equivalent course is available at Erindale,
- the same course at Erindale is in timetable conflict with a course required for a specialist or major programme and there is no suitable equivalent course available at Erindale.

In each subsequent Winter Session, until 14 credits have been completed, students may take no more than two courses on the St. George Campus unless more courses are needed to meet programme requirements. Students must file a request for such overloads with the Registrar, prior to the first day of class. Students may be removed from courses which exceed these limits.

Grades

Courses of Other Divisions

Certain courses offered in other Faculties and Schools of the University may be appropriate for degree credit in the Faculty of Arts and Science. After consulting an academic advisor, students should petition through the Office of the Registrar well before the beginning of the course(s) concerned. Permission to take such courses for degree credit will be granted when students can establish that the requirements for an Arts and Science programme cannot be met by courses offered within the Faculty. Acceptance of petitions to take graduate courses is further subject to the requirements of the School of Graduate Studies. Special Students may enrol through this Faculty only in courses given by this Faculty or Scarborough College.

Courses of Other Universities (Letters of Permission)

A Letter of Permission is prior confirmation that an intended course at another university is acceptable for transfer credit. Students may take a maximum of 5 courses elsewhere for transfer credit but only two transfer credits may be used to satisfy the requirement of 300/400 level courses for the degree (See Section 5 for degree requirements). To be eligible for a Letter of Permission, students must have a cumulative Grade Point Average of 1.50 or more.

Students admitted with transfer credit should consult a counsellor in the Registrar's office about the number of courses they may take on a Letter of Permission.

Transfer Credits

Students who study elsewhere without a prior Letter of Permission may request transfer credit after completing the course(s). Credit will be granted if:

- the course is acceptable for credit in this Faculty,
- a grade of at least C- (60) is attained,
- the student had a cumulative grade point average of 1.50 or more in this Faculty at the time the course(s) were taken,
- the courses will not exceed the maximum allowable limit of transfer credits.

Requests for Letters of Permission and Transfer credit are available in the Registrar's Office. There is a \$30.00 non-refundable service charge for either type of request.

Students are assigned a grade in each course as follows:

Percentage	Grade	Value	Grade Definitions
90 - 100	A+	4.3	Excellent
85 - 89	A	4.0	
80 - 84	A-	3.7	
77 - 79	B+	3.3	Good
73 - 76	B	3.0	
70 - 72	B-	2.7	
67 - 69	C+	2.3	Adequate
63 - 66	C	2.0	
60 - 62	C-	1.7	
57 - 59	D+	1.3	Marginal
53 - 56	D	1.0	
50 - 52	D-	0.7	

Credit/No Credit:	CR*	No Value	
35 - 49	E	0.3	Inadequate
0 - 34	F	0.0	Wholly Inadequate
Credit/No Credit:	NCR	0.0	No Value

Grades of "E" and "F" are both *failures*. There are no supplemental examination privileges in the Faculty.

Other notations which do not have grade point values are:

AEG	AEGROTAT STANDING - on the basis of term work and medical evidence (Rarely granted). Authorized only by the Committee on Standing by Petition.
SDF	STANDING DEFERRED - completion of course delayed for medical reasons. Authorized only by the Committee on Standing by Petition.
WDR	LATE WITHDRAWAL - without academic penalty** Authorized only by the Committee on Standing by Petition.
XTR	EXTRA COURSE - not for degree credit.
GWR	GRADE WITHHELD PENDING REVIEW - applied to students charged with an academic offence.

**The petition in this case is not for permission to withdraw, but is for removal of the failing grade from the student's record. Students remain responsible for applicable tuition fees.

Grade Point Average

The Grade Point Average (GPA) is the weighted sum of the grade points earned, divided by the number of courses in which grade points were earned. "No Credit" in a Credit/No Credit course will be included. A half-course will carry half the weight of a full course. Courses noted "AEG" or "PASS" or "Credit" are not included in the average, nor are transfer credits, courses taken on a Letter of Permission, or courses designated as "extra".

There are two types of Grade Point Average:

- a) The sessional GPA is based on the courses taken in a single session (summer or winter).
- b) The cumulative GPA takes into account all courses (other than extra courses) taken in the Faculty.

Both the sessional and cumulative GPA are used at the end of each session (summer or winter) in assessing academic status and in determining the rate of progress toward the degree.

The sessional GPA will be identical to the cumulative GPA for purposes of assessing a student's academic status in the first session.

A sessional and cumulative GPA will be calculated for all special students. The cumulative GPA of special students who have completed a degree in the Faculty includes all courses taken both as a degree student and as a special student.

The computation of an average will be delayed if "Standing Deferred" has been granted in any course.

Grades Review Procedure

The Committee on Academic Standards administers the Grading Regulations and reviews course grades submitted by Departments. The Faculty, through this Committee, is responsible for assigning the official course grades, which are communicated to the students by the Faculty Registrar.

Each Chair appoints a departmental review committee to review grades submitted by instructors. Both the departmental review committee, through the Chair, and the Faculty review committee, through the Dean, have the right, in consultation with the instructor of the course, to adjust marks where there is an obvious and unexplained discrepancy between the marks submitted and the perceived standards of the Faculty. Final marks are official, and may be communicated to the student only after the review procedure has taken place.

Grades, as an expression of the instructor's best judgment of each student's overall performance, will not be determined by any system of quotas.

Academic Status

The following Regulations apply to both Degree and Special students who have attempted at least four courses* in the Faculty.

1. Students who are neither On Probation, Suspended nor Refused Further Registration are described as *In Good Standing*.
2. A student shall be *on academic probation* who:
 - a) has a cumulative GPA of less than 1.50 or
 - b) returns from suspension.
3. A student who, at the end of any session (Winter or Summer) during which he is *on probation*:
 - a) has a cumulative GPA of 1.50 or more shall be in good standing,
 - b) has a cumulative GPA of less than 1.50 but a sessional GPA of 1.70 or more shall continue on probation,
 - c) has a cumulative GPA of less than 1.50 and a sessional GPA of less than 1.70 shall be *suspended for one calendar year* unless he has been suspended previously, in which case he shall be *suspended for three years*.
4. A student who, having been suspended for three years, is again liable for suspension shall be *refused further registration* in the Faculty.

NOTE: There are two sessions (Summer and Winter) in each calendar year and status is assessed following each of them.

*Courses attempted are those in which a student was enrolled on the last date for withdrawal, unless the academic penalty has been removed by petition.

Petitions

A petition is a written request for waiver of a particular regulation. Petitions are submitted in the form of a letter to the Registrar of the College or by completing a petition form available at the Registrar's Office and are considered in confidence by or on behalf of the Committee on Standing. This committee, which meets monthly, is charged with interpreting and administering the rules of the Faculty and has the authority to grant exemptions to the regulations and to attach conditions to their decisions. Petitions should be legible and completely documented. Incomplete or illegible petitions will be returned to the student.

The onus is on the petitioners to demonstrate the validity of their requests; the Committee may refuse any petition by deciding that the grounds advanced do not support the request made.

Students who feel they have genuine difficulties complying with a particular regulation(s) should consult a counsellor in the Registrar's Office as soon as they know a problem exists.

The most common petitions are those which concern the completion of term work and the writing of final examinations. The guidelines for submitting such petitions are:

Term Work - all term work must be submitted *on or before the last day of classes* in the course concerned, unless an earlier date is specified by the instructor. Students who, for reasons beyond their control, cannot meet the deadline may request an extension of time. Such requests must be filed before the last day of the relevant examination period and be supported by a medical certificate or other documentation.

Final Examinations - the deadline for submitting petitions concerning examinations is five working days after the end of the examination period and must be supported by medical documentation. Late petitions will be rejected.

- The medical certificate must state clearly the nature of the illness and its duration and show that the doctor was consulted at the time of the illness.
- Students who are too ill to come to the Registrar's Office on the day of the examination should call 828-5399 to report the illness and come in as soon as possible to file the petition.
- Students who become ill during the examination should report to the Health Service or the Registrar's Office immediately.
- If the petition is not based on medical grounds, all supporting documentation should be attached.

The Committee will not consider requests to defer final examinations based on travel or personal plans.

SUCCESSFUL PETITIONS WILL NOT EXCUSE YOU FROM ANY OF THE WORK OF THE COURSE, BUT MAY ALLOW YOU TO WRITE YOUR EXAMINATION AT A LATER DATE AND/OR AN EXTENSION OF TIME TO COMPLETE TERM WORK.

Appealing the Decision of the Committee on Standing

Decisions of the Erindale Committee on Standing are appealed to the Committee on Standing of the Faculty of Arts & Science and must be filed within ninety days.

Further appeals may be made to the Academic Appeals Board of the Faculty within ninety days of the date of the decision being appealed, and to the Academic Appeals Board of the Governing Council within *ninety days* of the decision being appealed.

Information about these procedures is available from the Office of the Registrar.

Departmental Appeals

Issues arising within a course that concern the paedagogical relationship of the instructor and the student, such as essays, term work, term tests, grading practices, or conduct of instructors, fall within the authority of the department. Students are entitled to seek resolution of these issues, either orally or in writing, through the following successive stages: the course instructor; the Discipline Representative; the Chair of the department; the Dean of the Division.

Transcripts

The transcript of a student's record reports the standing in all courses attempted, along with course size and course average, information about the student's academic status including record of suspension and refusal of further registration, and completion of degree requirements and of a Programme.

Course results are added to each student's record at the end of the session. Transcripts issued during the second term do not include "A" and "F" courses completed in the first term.

Individual courses from which a student withdraws within the normal time limit are not shown. However, the date of withdrawal from a session (i.e. withdrawal from the last course in which a student was enrolled) is recorded. Therefore, when a student taking only a single course withdraws from it, the date is recorded since it constitutes withdrawal from a session.

Copies of the transcript will be issued at the student's request, subject to reasonable notice. Requests should be submitted in person or by writing the Faculty of Arts and Science, Sidney Smith Hall, 100 St. George St., Toronto, M5S 1A1. There is no charge for transcripts issued within the University for internal use. A fee of \$6.00 for the first copy, plus \$3.00 for each additional copy, will be charged for transcripts to all other destinations. Payment *MUST* accompany such requests. Transcripts issued directly to students bear the official seal of the Faculty but are stamped "Issued to Student". The Office of the Faculty Registrar cannot be responsible for transcripts lost or delayed in the mail. Transcripts are not issued for students who have outstanding financial obligations with the University.

In accordance with the University's policy on access to student records, the student's signature is required for the release of the record. Although a transcript request with signature received by means of a FAX machine may be used to initiate processing, *the transcript will not be released until an original signature has been received.*

7 Programmes

(see Section 5 for regulations concerning
Programme and Degree requirements)

All degree students entering Erindale must enrol in a programme when they have passed their fourth course. If admitted with transfer credit for four courses or more, they must do this when they first register in the Faculty.

Entry to programmes is based on successful completion of four courses including prerequisite courses. Some programmes also require specific standing in individual courses and/or a minimum grade point average. See individual programme outlines in Section 7 for detailed information.

The maximum allowable number of programmes that will be certified on a student's transcript will be three.

Any variation made in Programme details for individual students does not in any way affect the Faculty's Degree requirements. Students should be aware that completion of the Programme Requirement does not ensure that Degree Requirements have been met. Students are required to complete 8 full course equivalents at the 300/400 level for an Honours degree or Bachelor of Commerce (4 for a Three Year degree) including courses required for a programme. If the programme requires fewer courses at this level, any other 300/400 level courses may be counted toward fulfillment of this requirement.

"COURSES" = full courses or the equivalent in full and/or half courses.

In this calendar, courses are designated by their credit value as follows:

Y Full credit course
H Half credit course

To determine the periods of instruction, refer to the *Timetable and Registration Information Booklet* where the following course suffixes apply:

Symbols Used in Course Description and Programme Requirements:

- (P.I.) Permission of instructor required to enrol.
(I) Open to first-year students (shown after course number).
(G) Course available only on the St. George Campus.
(,) comma)
(;) semi-colon) means AND
(&) ampersand)
(/) solidas symbol) means OR

Individual Areas of Study

Students wishing to pursue a programme other than (or in addition to) those offered by the disciplines or listed below may apply, through their Dean, for an individual Approved Area of Study. Such students should submit a coherent grouping of courses designed to meet their individual needs.

See Section 5 for further information about programme and degree requirements.

Animal Behaviour (B.Sc.)

Consult Professor T.M. Alloway

Specialist Programme (Interdisciplinary) **S24755**

9 courses are required including three 300/400 series and one 400+ series courses.

Candidates for admission to this programme must have completed four courses including one full course in biology with a mark of at least 60 and PSY100Y with a mark of at least 70 and must have a cumulative GPA of at least 1.5. Students in this programme will be admitted to balloted courses on the same basis as BIO and PSY specialists.

First Year: PSY100Y, BIO101Y/BIO151Y
Higher Years: CHM135Y/150Y, MAT112Y/132Y/138Y, BIO203H, 204H, 205H, PSY290Y, BIO304H/PSY390H/399H, BIO318Y, BIO360H, 361H, one additional BIO or PSY300-series half course, BIO481Y/PSY400Y

Anthropology (B.A.)

Specialist Programme S17755

9 courses are required.

First Year: ANT100Y

Higher Years: ANT203Y, 204Y, 200Y/207H/231H/311H/412H and 4 1/2 additional ANT courses, 3 of which must be at the 300/400 series and 1 at the 400+ series.

Major Programme M17755

6 courses are required.

First Year: ANT100Y

Higher Years: ANT203Y, 204Y, 200Y and 2 additional ANT courses at the 300/400 series.

Minor Programme R17755

4 courses are required.

First Year: ANT100Y

Higher Years: 3 additional ANT courses, including 1 at the 300/400 series.

Anthropology (Physical) (B.Sc.)

Specialist Programme S15105

9 courses are required.

First Year: ANT100Y

Higher Years: ANT203Y, 204Y, 200Y, 231H/311H/412H and 4 1/2 additional courses selected from the list of ANT science courses/ BIO360H/361H. 3 of these courses must be at the 300/400 series and 1 at the 400+ series.

Major Programme M15105

6 courses are required.

First Year: ANT100Y

Higher Years: ANT203Y, 204Y, 200Y and 2 additional 300/400 series courses selected from the list of ANT science courses/ BIO360H/361H.

NOTE: For ANT Science courses, see page 23.

Applied Physical Science (B.Sc.)

(Consult Department of Physics)

Specialist Programme S12605

13 courses required.

First Year: PHY135Y/140Y, CHM135Y/150Y, MAT112Y, 232H)/(132Y, 232H)/138Y (recommended)

Second Year: PHY224H, 240Y, 245H (or in third year), CHM211H, 221H, MAT212H/258Y

Third Year: PHY323H/324H, (257H, 258H)/(CHM321H, 322H), CHM311H, 391H, CSC148H, 158H

Fourth Year: PHY341H, 470Y/CHM489Y, CHM414H, one 300/400 level full course equivalent in Physics and/or Chemistry.

Art and Art History

See Fine Art

Astronomy (B.Sc.)

Major Programme M22045

8 courses are required.

First Year: AST110H, MAT138Y/(MAT112Y, 232H)/(MAT132Y, 232H), MAT222H, PHY140Y/PHY135Y (70%)

Second Year: AST221H(G), 222H(G), MAT212H, 311H/368H/334H, PHY240Y, 257F

Third Year: AST320H(G), 2 courses from: PHY341H/342H/343H/344H

Astronomical Sciences (B.Sc.)

Specialist Programme S10255

15.5 courses are required.

First Year: AST110H, CSC148H, CHM150Y/135Y (70%), MAT138Y/(MAT112Y, 232H)/(MAT132Y, 232H), PHY140Y/135Y (70%)

Second Year: AST221H(G), 222H(G), CSC158H, MAT212H, 222H, PHY240Y, 257H

Third Year: AST320H(G), CHM321H, MAT311H, 368H, PHY258H, 351H(G), 352H(G), 353H(G)

Fourth Year: AST420H(G), 425H, MAT334H, PHY355H(G), PHY357H(G)/358H(G)/457H(G)/459H(G)/460H(G), STA262Y/242Y.

Biochemistry (B.Sc.)

(Limited Enrolment)

Consult Department of Chemistry

Enrolment in this Programme is restricted and selection will be based on completion of 4 full course equivalents including CHM135Y (minimum grade of 70%)/CHM150Y, MAT112Y/132Y/138Y, one full BIO course equivalent at 100 or 200 series level; and a minimum GPA of 2.5 (or by Departmental permission).

Specialist Programme S17625

12 1/2 courses are required.

CHM135Y/150Y, MAT112Y/132Y/138Y, PHY135Y/140Y, BIO202H, 203H/204H/206H, CHM221H, 231H, 240Y, 341H/345H, 347H, 360Y, 371H and one 300 series BIO/CHM/MGB/PSL full course equivalent, BCH471Y(G) and four of CHM461H, BCH421H(G) to 430H(G), MGB410H, 420H (CHM447H in the years when BCH424H is not offered).

NOTES:

1. The first three years of the Biochemistry Specialist programme can be taken wholly at Erindale but students must take some fourth year courses on the St. George Campus.
2. Enrolment in CHM371H and BCH471Y(G) is limited.

Biology (B.Sc.)

Specialist Programme S23645

(Limited Enrolment)

Enrolment to this programme is limited to students who have completed four courses including one full credit in Biology with 60% or better, and who have achieved a cumulative GPA of at least 1.50. The actual GPA requirement in any particular year may slightly exceed this value, in order to achieve a proper balance between enrolments and teaching resources. The Faculty Advisor may make alternative arrangements for admission to the Specialist Programme in special circumstances.

Students who have not attained the standard required to enter the Specialist Programme, may enrol in the Major Programme. If their GPA rises to 1.70, and they have completed CHM135Y/150Y and BIO151Y, 202H, 203H, 204H and 205H, they will then be eligible to switch to the Specialist Programme, with written permission from the Faculty Advisor.

14 courses are required.

First Year:

1. CHM135Y/150Y, MAT112Y/132Y/138Y.
2. One full course equivalent from the following: PHY135Y/140Y/ (CSC148H, 158H)/GGR117Y/ (GSC120H, 121H)/PSY100Y.
3. One full course equivalent from the following: BIO151Y, 202H, 203H, 204H, 205H.

Second Year: The remainder of the following courses: BIO151Y, 202H, 203H, 204H, 205H.

Third and Fourth Years: BIO360H, 7.5 additional BIO options. At least five of these options (full course equivalents) must be at the 300 level or above, of which at least one FCE must be at the 400 level.

It is recommended that students in the specialist programme include at least one half course from each of four of the following groups of courses:

Ecology and Field Biology: JBG230Y, BIO300H, 301H, 302H*, 316H, 330H, 331H, 332Y, 417Y, 433H*.

Biology of Whole Organisms: BIO206H, 305H, 311H, 319H*, 334H*, 335H, 336H, 354H, 355H, 356H, 456H*.

Genetics and Evolution: BIO314H, 341H, 441H, 442H, 443H, 475H.

Cell, Molecular and Developmental Biology: BIO315H, 352H, 353H, 370Y, 372H, 452H*, 470H, 475H.

Physiology and Behaviour: BIO304H, 310H, 312H, 318Y, 404H, 420H*, 424H*.

Additional courses: BIO361H, 481Y, JBG491Y.

* Offered in alternate years

NOTES:

1. Students wishing to emphasize cell biology, molecular biology, microbiology, physiology or genetics should take CHM 240Y in second year.
2. CHM240Y, CHM360Y, and JBG230Y will automatically be accepted as equivalent to BIO course options in the Specialist programme.
3. Additional courses in cognate studies such as Computer Science, Physics, Chemistry, Geological Sciences, Psychology and Anthropology are recommended as valuable non-Biology options and may also be used as a substitute for not more than one Biology option. Students should consult with the faculty advisor before registration if they wish to substitute a non-Biology course for a Biology option. (Note: In the major programme, no substitutions are allowed.)
4. No substitute statistics course will be allowed for BIO360H except under extenuating circumstances.

5. Certain Erindale Biology courses will be treated as equivalent to corresponding St. George campus courses in satisfying requirements for the following St. George specialist programmes: Biology and Mathematics, Biology and Physics, Microbiology, Nutrition and Food Science, Paleontology, Pharmacology and Physiology. Students who intend to begin these programmes at Erindale should consult a Biology advisor as early as possible.

Major Programme M23645

7 courses are required.

1. CHM135Y/150Y, MAT112Y/132Y/138Y.
2. BIO151Y, 202H, 203H, 204H, 205H.
3. Two additional full-course equivalents in Biology from the 300 or 400 series.

NOTE: No courses outside Biology are allowed as substitutions for the two required 300/400 level courses.

Canadian Studies (B.A.)

Faculty Advisor: Professor J. Dutka
Telephone: 828-3737

"The most valid and compelling argument for Canadian Studies is the importance of self-knowledge, the need to know and to understand ourselves."

The Canadian Studies Programme at Erindale offers both a Specialist and a Major concentration drawn from courses in Anthropology, Commerce, Economics, English, Fine Art, French, Geography, History, Philosophy, Political Science, Religious Studies, and Sociology. Interdisciplinary in nature, the programme is nonetheless designed so that students can fulfill entrance requirements of the Faculty of Education or the School of Graduate Studies by a careful selection of courses in other areas. Students wishing to complete a specialist or major certification in Canadian Studies must notify and register with the Faculty Advisor.

Specialist Programme S07285

11 courses are required.

First and Second Years:

HIS262Y; POL100Y; ENG252Y; FSL160H, 182H (or, if exemption is granted, a course in French Canadian literature in the original language)

Third and Fourth Years:

GGR263H, 361H; ERI401Y, 402Y; and 4 courses (at least two of which must be at the 300/400 level) with a disciplinary, thematic or chronological coherence chosen, with the approval of the advisor of the programme, from the list of approved courses offered on either the Erindale or the St. George Campuses.

Major Programme M07285

7 courses are required.

HIS262Y; POL100Y; ENG252Y; FSL160H, 182H (or, if exemption is granted, a course in French Canadian Literature in the original language); GGR263H, 361H; and 2 courses chosen from those approved for the Specialist programme, both of which must be at the 300/400 level.

For course descriptions of ERI401Y and ERI402Y, see under Erindale College Courses.

Students may also be interested in the major programme in Literatures and Languages in Canada, administered through New College, but open to Erindale students. For further information, consult the Faculty Advisor.

Chemistry (B.Sc.)

Specialist Programme S13765

13 courses are required.

Enrolment in the Chemistry Specialist Programme is based on completion of 4 full course equivalents including CHM135Y (minimum grade of 70% or Departmental permission)/150Y and MAT112Y/132Y/138Y.

First Year: CHM135Y/150Y, MAT112Y/132Y/138Y, PHY135Y/140Y

Higher Years: CHM211H, 221H, 231H, 240Y, MAT212H/232H/258Y, CHM311H, 321H, 322H, 331H, 332H, 341H/345H, 391H, 393H, CHM489Y; three additional 400 series CHM/MAT/another Science half course.

NOTE: Additional 400 series CHM courses available include CHM414H, 452H, 453H, 461H, 485H at Erindale, plus the selection of CHM400 series courses at St. George.

Major Programme M13765

7 courses are required.

Enrolment in the Chemistry Major Programme is based on completion of 4 full course equivalents including CHM135Y (minimum grade of 70% or Departmental permission)/150Y and MAT112Y/132Y/138Y.

First Year: CHM135Y/150Y, MAT112Y/132Y/138Y

Higher Years: CHM211H, 221H, 231H, 240Y, 371H/391H/393H, two additional 300 series CHM full-course equivalents.

NOTES:

1. Limitations on CHM135Y as a prerequisite for certain 200 series CHM courses.
2. MAT prerequisite for CHM321H.
3. For a balanced training in Chemistry, students should take CHM311H, 321H, 331H, 341H/345H.

Minor Programme R13765

4 courses are required.

Enrolment in the Chemistry Minor Programme is based on completion of 4 full course equivalents including CHM135Y (minimum grade of 70% or Departmental permission)/150Y and MAT112Y/132Y/138Y.

First Year: CHM135Y/150Y, MAT112Y/132Y/138Y

Higher Years: one additional 200 series CHM full-course equivalent, one additional 300 series CHM full-course equivalent.

NOTES:

1. Limitations on CHM135Y as a prerequisite for certain 200 series CHM courses.
2. MAT prerequisite for CHM321H.

Chemistry and Biochemistry (B.Sc.)

Specialist Programme S12135

14 courses are required.

Enrolment in the Chemistry and Biochemistry Specialist Programme is based on completion of 4 full course equivalents including CHM135Y (minimum grade of 70% or Departmental permission)/150Y and MAT112Y/132Y/138Y.

CHM135Y/150Y, MAT112Y/132Y/138Y, PHY135Y/140Y, BIO202H, 203H/204H/206H, CHM211H, 221H, 231H, 240Y, MAT212H/232H/258Y, CHM321H, 311H/331H, 341H/345H, 347H, 360Y, 371H, 391H/393H, CHM447H(G)/BCH424H(G), BCH471Y(G)/CHM489Y, CHM461H/one additional BCH400(G) series half-course, two additional 300/400 series BCH/CHM half-courses.

NOTES:

1. Enrolment in BCH471Y(G) and CHM371H is limited.
2. Additional 400 series CHM courses available include CHM414H, 452H, 453H, 485H at Erindale, plus the selection of CHM400 series courses at St. George.

Chemistry and Geology (B.Sc.)

Specialist Programme S05795

See Geology and Chemistry

The Chemistry and Geology programme is intended for students with a strong chemistry background who wish to undertake graduate work in this area or who may be contemplating professional careers in the oil and mining industries. 14 courses are required.

Chemistry (Physical) (B.Sc.)

Specialist Programme S20985

13 1/2 courses are required.

Enrolment in the Chemistry (Physical) Specialist Programme is based on completion of 4 full course equivalents including CHM135Y (minimum grade of 70% or Departmental permission)/CHM150Y, MAT138Y and PHY140Y.

First Year: CHM135Y/150Y, MAT138Y, PHY140Y

Higher Years:

1. CHM221H, 231H, 240Y, MAT258Y, 368H, PHY240Y, CHM321H, 322H, two of (CHM331H, 332H, 341H, 345H), MAT311H.
2. 1 1/2 400 series CHM courses, PHY341H, 343H, any other 300 or 400 series CHM full-course equivalent.

NOTES:

1. 400 series CHM courses available at Erindale include 414H, 452H, 453H, 461H, 485H, 489Y.
2. Choice of fourth-year courses must be approved by the Faculty Advisor. The Physical Chemistry programme includes the study of more physics than the Chemistry Specialist programme and is intended for students interested in the more physical areas of chemistry.

Cinema Studies (B.A.)

Programme Coordinator: Professor J. Bielert (German)

The programme treats film primarily as a unique and powerful twentieth century art with its own traditions, history, conventions and techniques. Understanding film, its properties, methods and aesthetics, its impact on culture and society, is the basis of the programme.

Minor Programme R07975

4 full courses are required.

First Year: ERI112Y

Second Year: ITA240Y, GER251Y

Third Year: ITA340Y

Classical Civilization (B.A.)

Consult Department of Classics

The programme is designed to meet the needs both of students seeking a broad survey of Greek and Roman culture and of specialists in other Humanities subjects who require background knowledge of Classics for their particular interests, whether literary, historical or philosophical.

Major Programme M03825

6 full courses are required.

First Year: CLA160Y

Higher Years: Three CLA courses at the 200-level, two at the 300/400 level.

Minor Programme R03825

Four full courses are required.

First Year: CLA160Y

Higher Years: Three CLA courses at the 200+ level, including one at the 300/400 level.

NOTE: In either of these programmes one course in ancient art (e.g., FAH101Y/256H/258H) or ancient philosophy (e.g., PHL200Y/300H) may be substituted for a CLA course.

Commerce (B.Com.)*Commerce and Finance*

Enrolment in Commerce Programmes is limited. If all entry requirements will be met by the end of May, students normally apply for admission during February of that year. In addition, there is a late application period in July for those who will complete entry requirements during the Summer. There are two entry criteria, the first concerning prerequisite courses and the second, the student's cumulative GPA as determined each year by the Commerce Programmes Office. Students require a minimum of four courses, which must include MGT120H, ECO100Y, MAT112Y/132Y. Required minimum grades are 63% for MGT120H and ECO100Y, 60% in MAT112Y, and 50% in MAT132Y. The Cumulative GPA required will vary from one year to the next and is based, in part, on the criteria of supply/demand.

Enrolment in 200+ series MGT courses is restricted, with certain very limited exceptions, to students enrolled in Commerce Programmes. Students select their 200+ series MGT courses on a ballot form. Balloting for Summer courses takes place in March, and for Winter courses in April of each year.

**Specialist Programme S22735
(Limited Enrolment)**

This programme leads to the Bachelor of Commerce degree and requires a total of 20 credits.

First Year:

1. MGT120H
2. ECO100Y
3. MAT112Y/132Y

Students must take at least 4 courses including the ones listed above before being considered for admission to this programme. Students choosing a concentration in Accounting should consider MGT121H in First year.

Higher Years:

- A. Management Component (6 full courses or their equivalent)
 - (a) MGT120H, 222H **or** MGT120H, 121H, 224H, 322H
 - (b) MGT223H, 323H
 - (c) MGT337Y
 - (d) 1.5 courses from: MGT352H, 353H, 362H, 363H, 371H, 393H
 - (e) One 400-series MGT full-course equivalent
 - (f) Additional 200+ series MGT courses to a minimum total of 6
- B. Economics Component (6 full courses or their equivalent)
 - (a) ECO100Y
 - (b) ECO200Y/206Y
 - (c) ECO202Y/208Y
 - (d) ECO220Y/227Y/STA242Y/262Y
 - (e) Two 300+ series ECO full-course equivalents
- C. Mathematics Component (1 full course) MAT112Y/132Y
- D. Writing Component (2 full courses or their equivalent)

Two full course equivalents from the following: ANT, (one of ECO303Y/321Y/322Y/323Y), ENG, HIS, HPS, POL, PHL, SOC (200+ series excluding SOC300Y), WRI.

NOTES:

1. The programme requirements in effect at the time the Student is admitted to the programme must be met in order to fulfill the degree requirements.
2. GGR252H, HIS373Y, PHL295H, and POL209Y/317Y may be counted as MGT courses and MGT310Y may be counted as an ECO course.
3. Students interested in combining a B.Com. degree with an Economics Specialist Programme should refer to the appropriate Programme of Study for details.

Major Programme (B.A.) M11115
(Limited Enrolment)
7 courses are required.

Enrolment in Commerce Programmes is limited. If all entry requirements will be met by the end of May, students normally apply for admission during February of that year. In addition, there is a late application period in July for those who will complete entry requirements during the Summer. There are two entry criteria, the first concerning prerequisite courses and the second the student's cumulative GPA as determined each year by the Commerce Programmes Office. Students require a minimum of four courses, which must include MGT120H, ECO100Y, MAT112Y/132Y. Required minimum grades are 63% for MGT120H and ECO100Y, 60% in MAT112Y, and 50% in MAT132Y. The Cumulative GPA required will vary from one year to the next and is based, in part, on the criteria of supply/demand.

Enrolment in 200+ series MGT courses is restricted, with certain very limited exceptions, to students enrolled in Commerce Programmes. Students select their 200+ series MGT courses on a ballot form. Balloting for Summer courses takes place in March, and for Winter courses in April of each year.

1. **First Year:**

MGT120H
ECO100Y
MAT112Y/132Y

Students must take at least 4 courses including the ones listed above before being considered for admission to this programme.

2. **Higher Years:**

- ECO220Y/227Y/STA242Y/262Y
- MGT220Y/221H/223H/331Y/337Y, 352H, 362H/363H/WDW260Y
- If necessary, other MGT courses may be taken so that the total number of courses, including those from 1, 2a, and 2b, equals 7.
GGR252H, HIS373Y, PHL295H and POL209Y/317Y may be counted as MGT courses.

NOTE: The programme requirements in effect at the time the Student is admitted to the programme must be met in order to fulfill the degree requirements.

IMPORTANT NOTE:

The Major Programme in Commerce and Finance is offered to students enrolled in the University prior to the end of April 1992. This programme may be discontinued and may be unavailable to students at Erindale whose first enrolment is after the end of April 1992.

Computer Science (B.Sc.)

Specialist Programme S16885
(Limited Enrolment)
11 full credits are required.

Enrolment in the Specialist Programme is limited. Admission requires at least 60% in CSC148H and a combined average of 60% in MAT(112Y,232H)/(132Y,232H)/138Y and a GPA of 1.70.

- First Year:** CSC148H,158H;
MAT(112Y,232H)/(132Y,232H)/138Y
First or Second Year: CSC228H,238H, 258H
Second Year: MAT248Y,258Y
Second or Third Year: STA262Y
Third Year: CSC324H,350H,364H,378H;
MAT300Y(G)/315H(G)/334H/344H(G)/448H/ 468H
Third or Fourth Year:
- Any one of CSC351H,446H(G)
 - Any one of CSC438H(G),448H(G), 465H(G),478H(G)
 - One from Group A, and one from either A or B
 - CSC408H(G),418H(G),428H(G), 434H(G),458H(G),468H(G), 484H(G),485H(G),488H(G).
 - CSC340H(G),354H,372H(G), 444H(G),454H(G);ELE385H(G).

NOTE: Students are advised to arrange their programme so as to complete the requirements for the Major in Computer Science by the end of the third year.

Major Programme M16885
(Limited Enrolment)
7 full credits are required.

Enrolment in the Major Programme is limited. Admission requires at least 60% in CSC148H and in MAT112Y/132Y/138Y and a GPA of 1.70.

First Year: CSC148H,158H;MAT112Y/ 132Y/138Y

First or Second Year: CSC228H,258H

Second Year: MAT248Y

Higher Years: 6 half courses from the following groups:

- Two from group A
 - CSC324H,340H(G),354H,372H(G), 408H(G),418H(G),428H(G),434H(G), 444H(G)/454H(G),458H(G),468H(G), 484H(G),485H(G),488H(G); ELE385H(G).
- Two from group B
 - CSC238H,350H,351H(G),364H, 378H,438H(G),446H(G),448H(G), 465H(G),478H(G).
- Any other two from Group A or B or CSC300H(G),318H(G).

Minor Programme R16885

4 full credits are required.

First Year: CSC148H/150H(G), 158H/160H(G)

Second Year: CSC228H, 258H

Third or Fourth Year: 4 half-courses from the following groups:

1. One of CSC324H, 340H(G), 354H, 372H(G), 418H(G), 428H(G), 434H(G), 444H(G), 454H(G), 458H(G), 468H(G), 484H(G), 485H(G), 488H(G); ELE385H(G).
2. One of CSC238H, 350H, 351H(G), 364H, 378H, 438H(G), 446H(G), 448H(G), 465H(G), 478H(G).
3. Two from Group A or Group B or CSC300H(G), 318H(G).

Computer Science for Data Management (B.Sc.)

Specialist Programme S19225

(Limited Enrolment)

14 full credits are required.

Enrolment in this programme is limited.

Admission requires at least 60% in CSC148H and MAT112Y/132Y/138Y, at least 70% in ECO100Y, completion of MGT120H, and a GPA of 1.70.

First Year: CSC148H, 158H; MAT112Y/132Y/138Y; MGT120H; ECO100Y.

First or Second Year: CSC228H, 238H, 258H.

Second Year: MAT(212H, 232H)/258Y; ECO206Y/208Y.

Third Year: CSC324H, 350H, 364H, 378H; MGT223H, 323H; MAT248Y; STA262Y.

Third or Fourth Year:

1. CSC434H(G)
2. Two of CSC340H(G), 354H, 372H(G), 408H(G), 418H(G), 428H(G), (444H(G)/454H(G)), 458H(G), 468H(G), 484H(G), 485H(G), 488H(G); ELE385H(G), where at least one half course is at the 400-level.

NOTE: Students should arrange their programme so as to complete the requirements for the Major in Computer Science by the end of the third year.

Crime and Deviance (B.A.)

Faculty Coordinator: Professor D. Brownfield (Sociology) Telephone: 828-3941

This approved area of study is designed to provide a broad foundation for students who may have an academic or civic interest in issues of crime and its control.

This might include:

- a) students who at a later stage may wish to pursue more advanced work in areas related to, for example, criminology or social work;

- b) students wanting to know more about the topics of the sociology of crime, particularly as these become issues of public policy.

Major Programme M07275

A minimum of 7 full course equivalents are required including at least two 300/400 series courses.

5 full course equivalents are required (including 2 prerequisite full course equivalents).

SOC101Y, PSY100Y, SOC212Y, 306Y, 303H, PSY324H/SOC329H.

Optional Courses: Two full course equivalents to be selected from the following: PHL271H, 281H, 370H, PSY220Y, 230H, 260H, 340Y, SOC301Y, 324Y, 346Y.

Drama Studies (B.A.)

Specialist Programme: S18805

Theatre and Drama Studies

12 courses are required.

First Year: DRE120Y; DRS121Y

Second Year: DRS221Y, and one full-course equivalent in Theatre History (chosen from DRE240H/242H/244H/246H)

Third Year: DRE340H, 342H; DRS321Y, 325Y

Fourth Year: DRE400Y, DRS421Y, 425Y

**Two additional courses are required to reach the total of 12 courses and they may be selected from the following:

CLA300Y, ENG130Y, 220Y, 223H, *332Y, *338Y, *339H, *405/6H (when a dramatist), *420/421H (when a dramatist), ERI112Y, FAH200Y, *FRE358Y, GER251Y, *421Y, HIS354H, ITA240Y, *273Y, 340Y, *372Y, *SPA343H, *348Y.

* = Departmental prerequisites

NOTE:

1. Enrolment is limited in all studio (DRS) courses to students in the Theatre and Drama Studies Programme, and entry to the programme is determined on the basis of an audition conducted in April/May of each year.
2. No more than a combination of 14 Drama related courses may be taken.

Minor Programme: R24685

Drama Studies

Four full-course equivalents, as follows:

1. DRE120Y.
2. Any two of DRE240H/242H/244H/246H.
3. DRE340H, 342H.
4. One course in Dramatic Literature.

Economics (B.A., B.COM.)

Enrolment in Economics programmes is based on grades in ECO100Y and, in some cases, MAT112Y or MAT132Y. There is no grade point average requirement and no restriction on the number of students entering any one programme. Departmental permission is required.

Specialist Programmes (Limited Enrolment)

NOTE: Programme a) leads to the B.A. degree. Programme b) can only be taken conjointly with a specialist programme in Commerce and Finance (see page 36), and thus leads to a B.Com. degree. Enrolment in Programme b) is thus open only to those who have been admitted to the B.Com. degree programme.

a) Economics Specialist Programme S14785

Enrolment in this programme is limited to students with 70% in ECO100Y and (60% in MAT132Y or 55% in MAT138Y).

13 courses are required.

First Year: ECO100Y, MAT132Y/138Y.

Higher Years:

1. ECO206Y, 208Y, 227Y/STA262Y, ECO322Y, 325H, 326H, 327Y.
2. ECO303Y/321Y/323Y.
3. Four additional ECO courses, including 300+ series ECO and one 400 series course.
4. Students are strongly advised to take ENG100H before completing 15 courses.

Major Programme M14785

Enrolment in this programme is limited to students who have 63% in ECO100Y or who have passed ECO100Y and have a cumulative GPA of 2.50.

7 courses are required.

First Year: ECO100Y, MAT112Y(60%)/132Y/138Y

Higher Years: ECO200Y/206Y, 202Y/208Y, 220Y/227Y/STA242Y/262Y;
two additional 300/400 series ECO courses.

Minor Programme R14785

Enrolment in this programme is limited to students who have 63% in ECO100Y or who have passed ECO 100Y and have a cumulative GPA of 2.50.

4 courses are required.

First Year: ECO100Y

Higher Years: ECO200Y/202Y/206Y/208Y
Two additional ECO courses, including at least one 300/400 series course.

b) Specialist Programme: Economics (Commerce and Finance) S01375

This programme can only be taken conjointly with the specialist programme in Commerce and Finance (see page 36), and thus leads to a B.Com. degree. Students must be accepted in the Commerce and Finance (B.Com.) Programme to register in the Economics (Commerce and Finance) programme.

Enrolment in this programme is limited as follows: 70% in ECO100Y and (60% in MAT132Y or 55% in MAT138Y) and 63% in MGT120H and a minimum cumulative GPA.

16 courses are required.

First Year: ECO100Y, MGT120H, MAT132Y/138Y.

Higher Years:

1. **Management Component (6 full courses or their equivalent)**
 - (a) MGT120H, 222H or MGT120H, 121H, 224H, 322H
 - (b) MGT223H, 323H
 - (c) MGT337Y
 - (d) 1.5 courses from: MGT352H, 353H, 362H, 363H, 371H, 393H
 - (e) One 400-series MGT full-course equivalent
 - (f) If required, additional 200+ series MGT courses to a minimum total of 6 MGT courses
2. **Economics Component (7.5 full courses or their equivalent)**
 - (a) ECO100Y, 206Y, 208Y, 227Y, 327Y
 - (b) One Economic History course from: ECO303Y/321Y/322Y/323Y
 - (c) One and 1/2 other ECO courses at the 300/400 level, which must include at least one of: ECO325H, 326H, 432Y.
3. **Mathematics Component (1 course)**
MAT132Y/138Y
4. **Writing Component (2 full courses or their equivalent)**
Two full course equivalents from the following: ANT, (one of ECO303Y, 321Y, 322Y, 323Y), ENG, HIS, POL, PHL, SOC (200+ series excluding SOC300Y), WRI.

Major Programme: Economics (Commerce and Finance)

Completion of the Commerce and Finance (B.Com.) Specialist Programme by itself fulfills the requirements of the Economics major programme. Students must, however, obtain departmental permission for entry to the Economics Programme.

Economics and Political Science (B.A.)

Combined Specialist Programme S07515 (Limited Enrolment)

Enrolment in this programme is limited. Students enrolling at the end of first year (four courses) must obtain:

- (1) a mark of at least 62% in one POL course and at least 63% in ECO100Y, and a minimum Cumulative Grade Point Average of 1.80.

OR

- (2) a mark of at least 62% in one POL course and at least 50% in ECO100Y, and a minimum Cumulative Grade Point Average of 2.50.

Students enrolling at the end of second year (eight courses) must obtain:

- (1) a mark of at least 65% in each of two POL courses and at least 63% in ECO100Y, and a minimum Cumulative Grade Point Average of 2.00.

OR

- (2) a mark of at least 65% in each of two POL courses and at least 50% in ECO100Y, and a minimum Cumulative Grade Point Average of 2.50.

The following courses must be included in the programme:

Economics

ECO100Y, 200Y/206Y, 202Y/208Y, 303Y/321Y/322Y/323Y, 220Y/227Y/STA242Y/262Y, ECO322Y, MAT112Y(60%)/132Y/138Y

One additional 300/400 series course in Economics.

Political Science

7 courses in POL, including at least two 300/400 series of which one must be a 400-series course.

1. POL100Y
2. POL200Y, 309Y
3. One course from two of the following four fields: Comparative Politics (Developing); Comparative Politics (Industrial); International Relations; Public Policy and Public Administration (see Departmental Handbook for breakdown of courses into fields).
4. Two additional full course equivalents in Political Science.

English (B.A.)

Specialist Programme S16455

At least 10 and not more than 14 ENG courses fulfilling the following requirements:

1. ENG201Y/202Y
2. At least three courses selected from the pre-1800 group of courses (Group A, below), at least two of them at the 300-level or higher.

3. At least three courses selected from the post-1800 group of courses (Group B, below), at least two of them at the 300-level or higher.
4. At least one course selected from the Canadian Literature group of courses (Group C, below).
5. At least one course at the 400-level.
6. Only one 100-level course may be counted toward the programme requirements; ENG100H may NOT be counted.

Group A: ENG220Y, 240Y, 300Y, 302Y, 304Y, 306Y, 322Y, 330H, 332Y, 334H, 400Y, 401Y, 405H, 406H, 440Y, 441Y, 442Y, 455H, 456H, 457H, 491H, 493Y.

Group B: ENG213H, 214H, 236H, 237H, 250Y, 253Y, 275Y, 276Y, 308Y, 309Y, 310Y, 324Y, 328Y, 329H, 338Y, 339H, 348Y, 349H, 358Y, 359Y, 361H, 366Y, 420H, 421H, 443Y, 444Y, 458H, 459H, 471Y, 485Y, 488Y, 489Y, 492H.

Group C: ENG215H, 216Y, 223H, 252Y, 350H, 354Y, 356H, 430H, 431H, 470Y.

Major Programme M16455

At least 7 ENG courses fulfilling the following requirements:

1. ENG201Y/202Y.
2. At least two courses selected from the pre-1800 group of courses (Group A, above), at least one of them at the 300-level or higher.
3. At least two courses selected from the post-1800 group of courses (Group B, above), at least one of them at the 300-level or higher.
4. At least one course selected from the Canadian Literature group of courses (Group C, above).
5. Only one 100-level course may be counted toward the programme requirements; ENG100H may NOT be counted.

Minor Programme R16455

At least four ENG courses including at least 1 300/400 level, fulfilling ALL of the following requirements:

1. ENG201Y/202Y.
2. Only one 100-level course may be counted toward the programme requirements; ENG100H may NOT be counted.

NOTE: "Courses" refers to full (Y) courses or the equivalent in half (F,S,H) courses.

English and History (B.A.)

Combined Specialist Programme S04775
14 full course equivalents are required.

Enrolment in this programme is limited. Students may enrol after completing at least four courses, including two HIS courses with a mark of 70% in each.

I. English

1. ENG201Y/202Y
2. At least two courses selected from the pre-1800 group of courses (Group A above), at least one of them at the 300/400 series.
3. At least two courses selected from the post-1800 group of courses (Group B above), at least one of them at the 300/400 series.
4. At least one course selected from the Canadian Literature group of courses (Group C above).
5. Only one 100-series course may be counted; ENG100H may **NOT** be counted.

II. History

First Year: A 100-series HIS course; an additional HIS course at the 100 or 200 level.

Higher Years: Additional HIS courses to a total of at least seven in at least two areas as defined in the History Undergraduate Handbook. These courses must include at least three 300/400-series courses in British, Canadian, or U.S. History.

- III. One course will be a senior essay (either ENG490Y or HIS497Y) in the final year of study on a topic chosen by the student and written under the supervision of the appropriate Department. Students enrolling in either course must follow the procedures set out in the course description. NOTE: ENG490Y has a prerequisite of 4 ENG courses with an overall average of B.

Students in the Programme are required to confirm their Programmes annually with the faculty advisor during the registration period.

Environmental Analysis (B.Sc.)

Coordinators: Departments of Chemistry and Physics

This programme will prepare students to become scientists who can provide a practical contribution to the front-line monitoring and research that is being done by government and industrial organizations at an accelerating pace. The programme is designed so that all students have a common base of scientific training, but does permit specialization in the

areas of "biological processes" or "earth processes" to accommodate specific interests and provide flexibility. Graduates of this programme will have a powerful combination of functional skills and background perspective which will provide them with immediate value as perceived by potential employers. Equally important is that the programme will launch students into a satisfying career where they can make a genuine contribution to the social and economic viability, and quality of life in their communities.

Specialist Programme S10805

13.5 courses are required.

First Year: (BIO101Y/151Y)/(GSC120H, 110H/121H), CHM135Y/150Y, MAT112Y/132Y/138Y, PHY135Y/140Y

Second Year: (BIO204H/206H, 205H)/(GGR217Y, GSC215H), CHM211H, 221H, 240Y, JBG230Y

Third and Fourth Year: BIO360H, CHM311H, 391H, JBG491Y/CHM489Y/
GSC470Y/PHY470Y, PHY337H and 2.5 FCE 300-400 series courses related to one or other of two streams:

1. Environmental Analysis: Biological processes (selected from relevant BIO, CHM, and GGR courses) e.g. BIO300H/301H/302H/316H, 304H, 310H, 312H, 330H, 331H, 332Y, 361H, 370Y, 417Y, 420H, 433H, CHM231H, 360Y, GGR305H.
2. Environmental Analysis: Earth processes (selected from relevant BIO, CHM, GGR and GSC courses) e.g. BIO361H, CHM231H, GGR304H, 307H, 374H, 376H, 377H, 379H, 479H, GSC230H, 336H, 337H.

The selection must be made in consultation with the appropriate coordinator.

*Students selecting CHM489Y will be required to take some 200 and 300 level CHM courses in addition to those listed in this programme.

NOTE: Students are recommended to take CSC108H/148H by the end of year IV. To accomplish this, courses for distribution requirements may need to be selected from 200 level courses.

Environmental Management (B.A.)

Faculty Coordinator: Professor A. Grima
(Geography) 828-3928/978-3486

As development continues to place resources and people at risk, we are facing bigger challenges and opportunities to use our natural resource heritage wisely. This programme alerts students to the possibilities of wise use of the environment. It provides a scientific understanding of the problem and the political and legal framework in which management occurs and the range of policy options available.

Major Programme M14255

7 full course equivalents are required including at least two 300/400 series courses.

First Year: GGR117Y, BIO101Y and one of ECO100Y/POL100Y/ANT204Y.

Second Year: BIO205H, JBG230Y, GGR234H, STA202H/GGR276H.

Third Year: GGR393H/493H, 305H/307H/334H/374H/376H/BIO305H/330Y/332Y, SUR251H (Prerequisites waived for students in this programme)/*MGT392Y/PHL271H/370H/POL317Y.

NOTE: Students may wish to consider other courses as useful complements to this programme:

e.g., BIO300H, 301H, 302H, 316H, 330Y, 332Y, ECO200Y, 360Y, SUR241H, GSC120H, 121H; GGR255H, 307H, 335H, 377H.

*Students must ballot for this course with the Management Department.

Environmental Science (B.Sc.)

Faculty Coordinators: Professor D.S. Munro (Geography) - 828-3929

Professor J. Svoboda (Biology) - 828-5368

This cooperative programme between Biology and Geography is designed to prepare students for employment or advanced study in a variety of environmental fields by:

1. Familiarizing students with the structure and function of various types of natural and managed environments.
2. Educating students about environmental problems and the conceptual and practical skills useful in developing and implementing possible solutions.

Entry to any of the programmes in Environmental Science requires that a student be in good academic standing.

Specialist Programme S10615

12 courses are required including at least three 300/400 series and one 400+ series courses.

First Year: BIO101Y/151Y/201Y, GGR117Y, MAT112Y/132Y, CHM135Y/150Y/PHY135Y/140Y

Second Year: JBG230Y, BIO205H, 203H/204H/206H, GGR217Y

Third Year:

1. (BIO360H, 361H)/(STA202H, 212H);
2. One half course from BIO300H, 301H, 302H, 316H, GGR379H;
3. One full course equivalent from BIO300Y, 330H, 331H, 332Y, 417Y;
4. One full course equivalent from GGR304H, 305H, 307H, 312H, 313H, 316H, 374H, 376H, 377H

Fourth Year: One additional 3rd year half course from the "relevant course options" listed below, and JBG491Y.

Major Programme M10615

8 courses are required including at least two 300/400 series courses.

First Year: BIO101Y/151Y/201Y, GGR117Y, MAT112Y/132Y

Second Year: JBG230Y, BIO205H, GGR217Y

Third Year:

1. BIO360H/STA202H;
2. One full course equivalent from BIO300Y, 330H, 331H, 332Y, 417Y, 433H;
3. One full course equivalent from GGR304H, 305H, 307H, 312H, 313H, 316H, 374H, 376H, 377H

Minor Programme R10615

4 courses are required including at least one 300/400 series course.

First Year: BIO101Y/151Y

Second Year: JBG230Y, BIO205H; one half course from the "relevant course options" listed below

Third Year: One full course equivalent from BIO360H, 331H, 332Y, 417Y, GGR305H, 377H, 379H.

NOTE:

Relevant course options: for completion of a 15 or 20 course degree programme, students are recommended to take courses from the following lists:

Biology courses: BIO203H, 204H, 206H, 305H, 311H, 312H, 318Y, 319H, 334H, 355H, 370Y, 433H, 442H, 443H, 456H

Geography courses: GGR219H, 243H, 319H, 335H, 479H

Science courses: CHM211H, GSC240H, MAT212H, 222H, PHY224H, 235H

Exceptionality in Human Learning (B.A./B.Sc.)

Faculty Advisors: Professor S. Trehub, Room 3059 (by appointment) telephone 828-5415, and Professor M. Daneman, Room 3039 (by appointment), telephone 828-3965

This approved area of study is designed to provide a broad foundation for students who may have a vocational, academic, and/or civic interest in issues concerning exceptional children and adults, both the gifted and the disabled. The Faculty of Education at the University recommends this programme for prospective applicants.

Interested students might include:

- a) Those who at a later stage may wish to pursue more advanced work in special education, mental or physical rehabilitation programmes, group home management, adult retraining, etc.; study in areas related to hearing impairment, visual impairment, mental retardation, physical disability, or related fields.

- b) Those wanting to know more about the psychology, sociology and biology of exceptional individuals, particularly as these become issues of public policy.

Specialist Programme S14405

13 courses are required including at least three 300/400 series and one 400 series courses.

Enrolment in the Exceptionality in Human Learning Specialist Programme is limited to 20 students in each graduating year. Interested students must submit a written application (forms available in Room 2037B), together with documentation of their grades, to the Psychology Department. Applicants must have completed at least four university courses including PSY100Y and one of ANT100Y/SOC101Y/BIO101Y/BIO151Y, obtaining a grade point average of 2.70 (70%) or better. Although applications may be submitted at any time, it is advisable to apply as early as possible following the receipt of official grades.

First Year: PSY100Y, (for B.A. Specialists SOC101Y/ANT100Y)/(for B.Sc. Specialists BIO101Y/151Y)

Higher Years:

1. PSY210Y,442Y
2. 2-1/2 from the following: 311H/314H/315H/331H/340Y/341H/374H/393H/410H
3. For B.A. Specialists:
2 other Sociology or Anthropology courses at the 200+ series
For B.Sc. Specialists: 2 other Biology courses at the 200+ series
4. 4-1/2 additional courses to be selected from the following (no more than two from any one discipline):
ANT/SOC: any two courses from the combined areas
BIO: any two courses
CHM240Y/341H/347H/360Y
ENG234H
HIS308Y/315Y/354H/417Y/452H/459H
LIN100Y/130Y/228H/232H/310H/333Y/
JAL252Y/423Y/JLP315H
PHL244H/255H/267H/271H/272H/274H/
277Y/281H/290H/356H/373H
PSY201H/202H/270Y/311H/314H/315H/
316H/331H/340Y/373H/374H/376H/393H/
410H/419H

Major Programme M14405

6 courses are required including at least two 300/400 series courses.

Enrolment in the Exceptionality in Human Learning Major Programme is limited to students who achieve a grade of 60% or better in PSY100Y or subsequent PSY courses.

First Year: PSY100Y, (for B.A. Majors SOC101Y/ANT100Y)/(for B.Sc. Majors BIO101Y/151Y)

Higher Years:

1. PSY210Y
2. 2 additional courses in Psychology to be chosen from PSY311H/314H/315H/331H/340Y/341H/374H/393H/410H/419H
3. For B.A. Majors, 1 additional course in Anthropology or Sociology at the 200+ series
For B.Sc. Majors, 1 additional course in Biology at the 200+ series

Fine Art (History of Art) (B.A.)

Specialist Programme S09085

12 courses are required.

At least 9 Art History courses (including core surveys FAH101Y,102Y,200Y,210Y, plus at least 3 full courses at the 300 or 400 level), one FAS course and two courses in French, German or Italian. No more than a total of 13 FAH and FAS full courses may be taken. In designing a curriculum students are advised to note the prerequisites and corequisites of many FAH courses. The following progression of courses is strongly recommended:

First Year: FAH101Y,102Y, one language course.

Second Year: FAH200Y, other FAH200/300 level courses, one language course.

Third Year: 4 full courses or their equivalent chosen from the 300 or 400 series must include 1 full course from the 400 level.

Fourth Year: Further FAH courses chosen preferably from the FAH300 and 400 levels.

NOTES:

1. Specialists or majors in art history or art and art history are strongly urged to include in their programmes FAH101Y/102Y,200Y and 210Y in this sequence.
2. Specialists in art history are strongly urged to take a half course in the history of architecture at the St. George campus.
3. Courses in other departments, especially East-Asian Studies, Near Eastern Studies, Middle East and Islamic Studies, may be substituted for up to two full FAH courses with permission of the Undergraduate Secretary.
4. It is strongly recommended that students acquire a reading knowledge of at least one of French, German, or Italian by the end of second year.
5. Students may include up to the equivalent of two full courses from FAH256H,258H,265H,273H,278H.
6. FAS330Y *Past and Present Techniques* is open to History of Art Majors and Specialists and it is strongly recommended.

- Course selections beyond the level of the core surveys should be made from at least two of the periods designated as Ancient, Mediaeval, Renaissance-Baroque, and Modern.
- Students who wish to complete their programmes at the St. George Campus must apply to the Department of Fine Art, where each application will be judged on an individual basis.

Major Programme M09085

6 courses are required.

6 FAH courses of which 3 FAH courses must be selected from the core surveys and no more than one survey from the first year (see Specialist Programme) and an additional 2 from the FAH300 or 400 level courses.

Up to one full course may be taken in other departments (see Specialist Note 1). No more than a combination of 10 FAH and FAS full courses may be taken of which no more than a total of 8 may be FAH.

Minor Programme R09085

4 courses of which 3 must be from the core surveys and no more than one from first year. 1 full course must be from 300 or higher level.

Art and Art History (B.A.)

Specialist Programme S07145

At least 7 full course equivalent FAS courses and 4 full course equivalent FAH courses are required. A minimum of four 300/400 series full course equivalents, one of which must be at the 400+ series, must be included.

First Year:

- One full-course equivalent FAH course
- Two full-course equivalent FAS courses from the following:
FAS143H, 145H, 146H, 147H, 232H*

Higher Years:

- Three full-courses equivalent FAH courses
- Remaining FAS courses from
FAS143H, 145H, 146H, 147H, 232H*, 248H
- Additional FAS courses to a total of at least 7 full-course equivalents

NOTES:

- No more than a combination of 15 FAH and FAS full courses may be taken.
- Three of the FAH courses must be from the core surveys (See Fine Art History - Specialist Programme)
- Enrolment is limited in all studio courses. Balloting is mandatory for all FAS200, 300, 400 level courses. Ballot forms are available from the Fine Art Office, Erindale or Visual Arts Office, Sheridan and should be returned to the Visual Arts Office, Sheridan, as soon as possible.
- *FAS232H is open to first year students.

Major Programme M07145

At least 4 full course equivalent FAS courses and at least 3 full course equivalent FAH courses are required. A minimum of two 300/400 series full course equivalents must be included.

First Year:

- One full-course equivalent FAH course
- Two full-course equivalent FAS courses from the following:
FAS143H, 145H, 146H, 147H, 232H*

Higher Years:

- Two full-course equivalent FAH courses
- Remaining FAS courses from
FAS143H, 145H, 146H, 147H, 232H*, 248H
- Additional FAS courses to a total of at least 4 full-course equivalents.

NOTES:

- No more than a combination of 12 FAH and FAS full courses may be taken.
- Two out of the three FAH courses must be from the core surveys (See Fine Art History - Specialist Programme)
- Enrolment is limited in all studio courses. Balloting is mandatory for all FAS200, 300, 400 level courses. Ballot forms are available from the Fine Art Office, Erindale or Visual Arts Office, Sheridan and should be returned to the Visual Arts Office, Sheridan, as soon as possible.
- *FAS232H is open to first year students.

French Language and Literature (B.A.)

Specialist Programme S12955

10 courses, including at least 4 300/400 series courses, one of which must be a 400-series course.

First Year: FRE150H, FSL182H

Second Year: FRE240Y, 272Y/273Y, FSL282H, 283H

Third/Fourth Years:

- FSL382H and FSL383H*
- 5.0 FRE literature course including
 - at least 1.0 FRE course in pre-1800 literature
 - at least 1.0 FRE course in post-1800 literature
 - at least 1.0 FRE course in Quebec literature
 - at least 1.0 400-level course

*Exemptees should replace this pair of half-courses with 1.0 course in French Linguistics at the 300/400 level. Exemptions should only be granted to students with B+ or higher in relevant examinations at FRE271Y/FSL282H/FSL283H.

Major Programme M12955

7 courses, including at least 2 300/400 series course.

First Year: FRE150H,FSL182H

Second Year: FRE240Y,272Y/273Y,
FSL282H,283H

Third Year: 3.0 FRE literature courses including

1. at least 0.5 FRE course in pre-1800 literature
2. at least 0.5 FRE course in post-1800 literature
3. at least 0.5 FRE course in Quebec literature

French Language and French Linguistics (B.A.)

Major Programme M05255

7 courses, including at least 2 300/400 series courses.

First Year: FRE150H,FSL182H

Second Year: FRE272Y,FRE210Y/240Y,
FSL282H,283H

Third Year: 3.0 FRE Linguistics courses including at least 2.0 at the 300/400 level

French Studies

Minor Programme R21565

4 courses, including at least 1 300/400 series course.

1. FSL182H and one of FRE150H/FSL160H
2. 3 other FRE or FSL courses, one of which must be at the 300-level

Group A (French Linguistics):

FRE272Y,273Y,375Y,378H,388H,488H

Group B (Literature until 1800):

FRE320Y,356H,363H

Group C (Literature after 1800):

FRE324Y,358H,364H,365H,367H,368H,401H

Group D (Quebec literature):

FRE210Y,312H,317H,400H

Group unspecified in Literature courses:

FRE330H,435H.

French and Italian (B.A.)

Combined Specialist S08155

14 courses are required. The programme must include a minimum of four 300/400 series full course equivalents (2 in French and 2 in Italian) and one full course equivalent at the 400 level (either in French or in Italian).

French

7 full course equivalents are required.

First Year: FSL182H,FRE150H

Higher Years:

1. FRE240Y
2. FSL282H,283H,382H,383H (See exemptions)

3. 1 full course equivalent from Group A of the FRENCH programme
4. 1 full course equivalent from Group B, C, D of the FRENCH programme.

Italian

7 full course equivalents are required.

First Year: ITA100Y/110Y. If students have already taken grade 12 or grade 13/OAC Italian, they automatically go to higher years and choose one extra course from the courses offered there.

Higher Years:

1. Two courses from ITA200Y/210Y, 350Y,355Y,221Y,230Y,235Y.
2. ITA321Y.
3. One course from ITA324Y,372Y,390Y, 436Y.
4. Two other ITA full course equivalents except courses taught in English.

Geoeconomics (B.Sc.)

Consult Professor H.C. Halls in Geological Sciences.

Specialist Programme S12555

12.5 full course equivalents are required.

First Year: ANT100Y;MAT112Y/132Y/138Y;
PHY135Y/140Y;GSC120H

Second Year: ANT200Y,203Y,204Y;
GSC220H,270H.

Third Year: ANT305Y,311H,312H;
GSC219H, 222H

Fourth Year: ANT412H,411H/416H;
GSC336H,337H

Geography (B.A.)

Specialist Programme S16665

10 courses are required.

1. **First Year:** GGR117Y;
Second Year: GGR217Y,218Y,219H;
Third Year: GGR317Y,318Y,319H
Fourth Year: GGR417Y;
2. 2 full course equivalents including at least 1/2 at the 300/400 level from the GGR "non-science" offerings; and
3. MAT112Y/(if student has an OAC mathematics course) one full course equivalent from BIO,CHM,GSC,MAT or PHY.

Major Programme M16665

7 courses are required.

1. **First Year:** GGR117Y;
Second Year: GGR217Y,218Y,219H;
Third Year: GGR317Y,318Y;
2. 1/2 course from the GGR "non-science" offerings; and
3. MAT112Y/(if student has an OAC mathematics course) one full course equivalent from BIO,CHM,GSC,MAT or PHY.

Minor Programme R16665

4 courses are required.

1. **First Year:** GGR117Y;
Second Year: GGR218Y;
2. 2 additional full course equivalents from the list of GGR "non-science" courses, including at least one at the 300/400 level.

Geography (B.Sc.)**Specialist Programme S16665**

12 courses are required.

1. **First Year:** GGR117Y;
Second Year: GGR217Y, 218Y, 219H;
Third Year: 317Y, 318Y, 319H;
Fourth Year: GGR417Y;
2. 2 full course equivalents including at least 1/2 at the 300/400 level from the list of GGR science courses; and
3. two full course equivalents from BIO, CHM, GSC, PHY; and
4. MAT112Y/132Y/138Y.

Major Programme M16665

7 courses are required.

1. **First Year:** GGR117Y;
Second Year: GGR217Y, 218Y, 219H;
Third Year: GGR317Y, 318Y;
2. 1/2 course from the list of GGR science courses; and
3. MAT112Y/132Y/138Y.

Minor Programme R16665

4 courses are required.

1. **First Year:** GGR117Y;
Second Year: GGR217Y;
2. 2 additional full course equivalents from the list of GGR Science courses, including at least one at the 300/400 level.

Geology (B.Sc.)

Consult Undergraduate Secretary in Geological Sciences.

Specialist Programme S05095

13.5 full course equivalents are required.

First Year: CHM135Y/150Y; MAT112Y/132Y/138Y; PHY135Y/140Y; GSC120H; one-half course equivalent from GSC103H/110H/121H.

Basic Science requirement (to be taken as early as practical during the student's programme, typically in second year):
1 full course equivalent from:
BIO/CHM/CSC/MAT/PHY/STA.

Second Year: GSC219H, 220H, 222H, 230H, 270H.

Third Year: GSC320H, 321H, 325H, 332H, 375H; 1 full course equivalent from GSC336H, 337H; PHY344H

Fourth Year: GLG301H, 401H, 402H; GSC425H; one-half course equivalent from GLG/GSC300/400 level.

Major Programme M05095

7.5 full course equivalents are required.

First Year: MAT112Y/132Y/138Y; CHM135Y/150Y/PHY135Y/140Y; GSC120H; one-half course equivalent from GSC103H/110H/121H

Second Year: GSC219H, 220H, 222H, 230H, 270H.

Third Year: GSC325H, 332H; 1 full course equivalent from GSC320H, 321H, 336H, 337H, 375H, GLG301H; PHY344H

Minor Programme R05095

4 full course equivalents are required.

First Year: GSC120H; one-half course equivalent from GSC103H/110H/121H
Second Year: GSC219H, 220H, 222H, 270H
Third Year: GSC325H, any one-half course equivalent from GSC320H, 321H, 332H, 336H, 337H, 375H

Geology and Anthropology (B.A.)

Consult Professor H.C. Halls in Geological Sciences.

Specialist Programme S10155

12 full course equivalents are required.

First Year: ANT100Y; GSC120H, 121H

Second Year: ANT200, 203Y/204Y; GSC219H, 222H, 270H

Third Year: ANT231H/311H, 312H; GSC375H

Fourth Year: 1 FCE from ANT430Y, 432Y, GSC470Y, 471H + 472H

4 additional FCE's in GSC or ANT, 2 of which must be at the 300 level.

Geology and Chemistry (B.Sc.)

Consult Undergraduate Secretary in Geological Sciences.

Specialist Programme S05795

14 full course equivalents are required.

First Year: CHM135Y (minimum grade of 70% or Departmental permission)/150Y; MAT112Y/132Y/138Y; PHY135Y/140Y; GSC120H; one-half course equivalent from GSC103H/110H/121H

Second Year: GSC219H, 222H, 230H; CHM221H, 231H, 240Y; MAT212H

Third Year: GSC220H, 270H, 320H, 321H; CHM211H, 311H, 331H

Fourth Year: GSC325H, 375H; CHM391H; 1 full course equivalent from GLG/GSC/CHM 400 level

Geology and Geography (B.Sc.)

Consult Undergraduate Secretary in
Geological Sciences.

Specialist Programme: S18855

12.5 full course equivalents are required.

First Year: GGR117Y;MAT112Y/132Y/
138Y;1 full course equivalent from BIO/CHM/
PHY/STA[PHY135Y/150Y or CHM135Y/150Y
are recommended];GSC120H;one-half course
equivalent from GSC103H/110H/121H

Second Year: GSC219H,220H,222H,270H;
GGR217Y;JBG230Y

Third Year: GSC215H,325H;2.5 full course
equivalent from GGR304H,305H,307H,312H,
313H,316H,374H,376H,377H,379H,
GSC336H,375H,GEO326H (at least 1 of
which must be from GGR)

Fourth Year: 1 full course equivalent from
GGR491Y,GSC470Y,471H,GLG400H,480H

Major Programme M18855

8 full course equivalents are required.

First Year: GGR117Y;MAT112Y/132Y/
138Y;GSC120H

Second Year: GSC215H,219H,220H,222H,
270H;GGR217Y

Third Year: GSC325H,1.5 full course
equivalent from GGR304H,305H,307H,312H,
313H,316H,374H,376H,377H,379H,
GEO326H,GSC336H (at least 1 of which
should be from GGR)

Geology and Physics (B.Sc.)

Consult Undergraduate Secretary in
Geological Sciences.

Specialist Programme S16505

13.5 (13*) full course equivalents are required.

First Year: CHM135Y/150Y;MAT132Y*/
138Y;PHY135Y/140Y;GSC120H

Second Year: GSC219H,220H,222H;
MAT212H,232H;PHY224H,240Y

Third Year: GSC332H,336H;PHY341H,
343H,344H;MAT311H,334H

Fourth Year: PHY420H,421H;1 full course
equivalent from PHY465H,467H,468H,one-half
course equivalent from GLG/GSC300/400 level.

* students who have taken MAT138Y, rather
than MAT132Y, do not need to take
MAT232H; therefore their programme
requires only 13 full course equivalents.

German Language and Literature (B.A.)

Specialist Programme S21355

10 courses including three 300/400 series and
one 400+ series courses are required.

First Year: GER202Y,204Y

Second Year: GER222Y,302Y

Third/Fourth Years: GER326H,340Y; at
least 2.5 courses from GER251Y,280Y,402Y,
412H,413Y,415H,416H,490H; at least 2
courses from GER321H,322H,323H,327H,
331H,332H,421Y,422Y,431H,432H,490H.

NOTE: Enrolment in the Specialist and Major
programmes is open to students who have
successfully completed four courses and who
have the required competence in German.
Students without OAC German should
arrange their courses in consultation with the
Department.

Major Programme M21355

7 courses are required including two 300/400
series courses.

First Year: GER202Y,204Y.

Second Year: GER222Y,302Y.

Third Year: At least 1.5 courses from:
GER326H,402Y,412H,413Y,415H,416H,490H;
at least 1.5 courses from: GER321H,322H
323H,327H,331H,332H,340Y,421Y,422Y,
431H,432H,490H.

NOTE: Students without OAC German
wishing to major in German should arrange
their programme in consultation with the
Department.

Minor Programme R21355

Four courses in German forming a coherent
series, which must be approved by the
Department before enrolment in the second
year. Possible minor programmes include
those in language and literature.

History (B.A.)

Specialist Programme S06525

10 full course equivalents and a language
requirement.

Students may enrol in the Specialist
Programme in History after completing at
least four courses, including two HIS courses
with a mark of 70% in each.

First Year: A 100-series HIS course; an
additional HIS course at the 100 or 200 level.

Higher Years:

- I. Additional HIS courses to a total of ten,
meeting the following requirements:
 - A. At least five 300/400-series HIS
courses including two 400-series HIS
courses.
 - B. At least one course from each of three
of the following divisions:
 1. Asia/Africa/Latin America
 2. Canada and United States
 3. Europe
 4. Industry and labour history
 5. Peace and conflict history
 6. Social and cultural history
 - C. At least one pre-modern course
- II. A reading knowledge of a language other
than English. Reading knowledge must
be demonstrated by two university-level
courses or by a special exemption
examination to be set by the Department
of History.

Major Programme M06525

7 full course equivalents.

First Year: One 100-series History course; in addition, students may take one 200-series HIS course.

Higher Years: Additional HIS courses to a total of seven*, meeting the following requirements:

1. One 400-series HIS seminar
2. Two additional 300/400-series HIS courses
3. One course from each of three of the following divisions:
 - a. Asia/Africa/Latin America
 - b. Canada and United States
 - c. Europe
 - d. Industry and labour history
 - e. Peace and conflict history
 - f. Social and cultural history
4. One pre-modern course

*The History Handbook identifies pre-modern courses and indicates courses satisfying the divisional requirements. Majors may substitute history courses taught elsewhere in the faculty for up to two of the HIS courses. These substitutes may be used to fulfil 1 through 4 of the Major programme.

Minor Programme R06525

4 HIS courses; at least one of which must be a 300/400-series course.

History and English

(See English & History)

History and Political Science (B.A.)

Specialist Programme S10455

14 full course equivalents.

Enrolment in the Specialist Programme in History and Political Science is limited.

1. Students enrolling at the end of first year (four courses) must obtain a mark of at least 62% in one POL course and a mark of at least 70% in each of two HIS courses and a Cumulative Grade Point Average of 1.80.
2. Students enrolling at the end of second year (eight courses) must obtain a mark of at least 65% in each of two POL courses and a mark of at least 70% in each of two HIS courses and a Cumulative Grade Point Average of 2.00.

History

First Year: A 100-series HIS course; an additional HIS course at the 100 or 200 level.

Higher Years: Additional HIS courses to a total of at least seven courses from at least two areas of study. These must include HIS262Y; at least three courses at the 300/400-series; and at least one pre-modern course. (Consult the History Undergraduate Handbook for information about areas of study.)

Two HIS courses must correspond in area and theme to two of the POL courses chosen.

Political Science (seven full course equivalents)

First Year: POL100Y

Higher Years:

1. POL200Y
2. One course from each of two of the following four fields:
 - Comparative Politics (Developing)
 - Comparative Politics (Industrial)
 - International Relations
 - Public Policy and Public Administration(see Departmental Handbook for breakdown of courses into fields)
3. Three additional POL courses.

Industrial Relations (B.A.)

Faculty Advisors:

Professor F. Reid (Economics)
Professor J. Kervin (Sociology)
Professor L. MacDowell (History)

Interest in the field of industrial relations has grown over time as the employment relationship has increased in complexity, partly due to new legislative initiatives in areas such as employment standards, human rights and pay equity. The Industrial Relations programme is designed to enable students to focus on the study of the employment relationship and examine it from the perspectives of the disciplines of economics, history, sociology and organizational theory. The field of industrial relations encompasses a study of the nature of the institutions involved in the employment relationship and the practices and procedures governing the relationship. The intention is to provide undergraduate students with a theoretical background and a knowledge of current developments in the labour field that will serve as a basis for a career in administration of industrial relations or for further training at the graduate level. The programme also provides valuable general training for individuals seeking employment in positions which require an understanding of industrial relations.

Interested students should consult
Mrs. P. Hynek, Department of Economics,
Room 226, Kaneff Centre
(Telephone: 828-5404)

Major Programme M18825

7 full course equivalents, including at least two 300/400 series courses, are required. The programme must include one full course equivalent from each of the following six categories plus one additional full course equivalent chosen from category number 1 or 3 or 5.

1. ECO100Y,361Y
2. ECO244Y
3. HIS313Y or 1 full course equivalent from HIS248Y/308Y/319Y/387H/459H/487Y
4. SOC101Y
5. SOC207Y or SOC206Y/245Y/317Y/346Y
6. 1 full course equivalent from WDW260Y/ (MGT362H,363H)*

*Students must ballot for these courses with the Management Department.

Italian (B.A.)

See also Cinema Studies

Specialist Programme S25245

10 full courses are required including at least three 300/400 series full courses and one 400+ series full course.

First Year: ITA 100Y/110Y. If students have taken grade 12 or OAC Italian, they automatically go to higher years and choose one extra course from the courses offered there.

Higher Years:

1. One full course or equivalent from ITA200/210Y,350Y,355Y,450Y.
2. ITA321Y,436Y (or equivalent)/324Y.
3. One full course or equivalent from ITA324Y,421H,427H.
4. One full course or equivalent from ITA325H,372Y,390Y,395H.
5. Four other full course equivalents in ITA including those listed above, but only 1 film course (ITA 240Y or 340Y) may be chosen.

Major Programme M25245

7 courses are required including at least two 300/400 series full courses.

First Year: ITA100Y/110Y. If students have already taken grade 12 or OAC Italian, they automatically go to higher years and choose one extra course from the courses offered there.

Higher Years:

1. One course from ITA200Y/210Y,350Y,355Y,450Y.
2. ITA321Y
3. Four other full course equivalents in ITA, including those listed above, but only 1 film course (ITA240Y or 340Y) may be chosen.

Minor Programme R25245

4 ITA courses are required including at least one 300/400+ series full course.

Possible combinations:

Two language courses and ITA240Y and 340Y (given in English); OR
4 consecutive language courses; OR
4 courses or equivalent selected in consultation with and approved by the Italian Department.

NOTE: Students intending to pursue graduate studies in Italian at the School of Graduate Studies in Toronto should take three full courses or equivalent covering three of the main periods of Italian literature (i.e., Middle Ages, the Renaissance, the 17th and 18th centuries, the modern period) and must obtain an overall average of at least 75% in their last two years of study.

Italian and French

See French & Italian Combined Specialist

Latin American Studies (B.A.)

Faculty Coordinator: Professor E. Neglia (Spanish)

Major Programme M05525

A minimum of 7 full course equivalents. 7 full course equivalents (for students with OAC Spanish).

8 full course equivalents (without OAC Spanish) SPA220Y*,280Y,320Y,HIS290Y,484Y,ANT210Y,ERI390Y.

Supplementary Courses:

The programme may be supplemented with one or more of the following courses: HIS335H,391H,492Y,SPA366H,382H,385H.

*NOTE: Native speakers of Spanish are required to substitute the equivalent of one full course at the 300 level in Spanish American literature for SPA220Y.

Logic (B.A.)

Major Programme M17365

6 full course equivalents are required.

1. CSC148H,364H (For students in the programme, the prerequisite for CSC364H will be satisfied by the combination of CSC148H,MAT222H/248Y, and PHL344H).
2. MAT112Y/132Y/138Y,222H/248Y,309H.
3. PHL245H,344H,345H.
4. Three of PHL246H,346H,347H,351H,356H.

Mathematical Sciences (B.Sc.)

Specialist Programme S25115

12 courses are required.

First Year: CSC148H, 158H, MAT104H, 108H, 138Y.

Second Year: MAT248Y, 258Y, STA262Y.

Third Year: MAT309H, 311H, 334H, 368H, 378H, 388H.

Fourth Year: Two MAT half courses at the 400 level. Four half courses at the 200+ level in ACT/APM/CSC/MAT/STA.

Major Programme M25115

7 courses are required.

First Year (preferably): MAT104H, 108H, 138Y.

(NOTE: The following replacements may be made: PHL245H for the first of these, MAT315H-at the St. George campus-for the second and the combination of MAT112Y/132Y with MAT232H for the third).

Second Year (preferably): MAT248Y, 258Y.

Subsequent Years: MAT309H, 311H, 334H, 368H, 378H, 388H.

Minor Programme R25115

4 courses are required including one 300/400 series course. MAT112Y/132Y, 212H, 232H, and 2 courses chosen from PHL245H and MAT courses at the 300/400 level.

Molecular Biology (B.Sc.)

Faculty Advisors:

Professor M. Damha (Chemistry)

Rm. 4052, Phone: 828-3802

Dr. F. Szeicz (Biology)

Rm. 2043, Phone: 828-5366

Molecular Biology is an interdisciplinary science that draws its major themes from biochemistry, cell biology and genetics. It is distinctive in its emphasis on the structure, chemistry and functions of nucleic acids and in that sense focusses on the biochemical basis of cellular genetics. Molecular Biology is also the cornerstone of contemporary biotechnology and provides some of the most successful experimental tools in medicine and agriculture.

The Specialist program reflects the interdisciplinary nature of the field by providing a rigorous background of core courses up to the end of the third year covering chemistry, biochemistry, cell biology and genetics. These courses are offered by the Biology and Chemistry Departments at the College. The program in the fourth year is largely open-ended providing flexibility for the student to design a course outline that fits his/her areas of interests.

Specialist Programme S12375

12.5 full course equivalents are required.

First Year: CHM135Y/150Y, MAT112Y/132Y/138Y/PHY135Y/140Y

Second Year: BIO202H, 203H, CHM211H, 240Y, PHY235H/CHM221H, STA202H/BIO360H

Third Year: BIO315H, 370Y, 372H, CHM347H, 360Y, 371H

Fourth Year: BIO470H, 475H, 2 of BIO341H/441H/CHM461H/BCH421H(G)/425H(G)/430H(G)/MGB410H(G)/420H(G)

One or more of the BIO200H courses may be taken in Year 1.

Students intending to continue graduate studies should consider including a course in independent research in Year 4.

Peace and Conflict Studies (B.A.)

Faculty Coordinator: Professor M. Spencer (Sociology), Room 1145, Phone: 828-3938

This interdisciplinary programme is overseen by a committee appointed by the departments of History, Philosophy, Religious Studies and Sociology, and draws on all these approaches, seeking to specify the conditions for a stable peace. Peace is defined, not only as the absence of war, but as the observance of human rights, democratic practices, social justice, environmental and economic security, and nonviolent means of managing disputes and struggling for reform. Peace studies is perhaps the fastest-growing academic field in the world. Graduates of such programmes are found in varying occupations, ranging from military officers (specialists in peacekeeping forces and social defence tactics) to journalists; teachers of conflict resolution in elementary schools; environmental lobbyists; family and community mediators; to foreign service officers.

Major Programme M12285

7 full course equivalents are required

including at least two 300/400 series courses.

First Year: ANT100Y/HIS100Y/108Y/110Y/PHL100Y/101Y/PSY100Y/RLG105Y/SOC101Y

Second and Third Years: SOC231Y/UNI110Y(St. George course), PHL277Y, RLG338Y, SOC431H;

One full course equivalent from the following: HIS311Y/343Y/440Y/484Y/491Y/POL208Y

1.5 full course equivalents from the following: ANT204Y/ECO244Y/HIS290Y/300Y/307H/311Y/315H/368H/377Y/390H/415H/476Y/479Y/PHL274H/278H/365H/POL204Y/208Y/306Y/312Y/328Y/329Y/340Y/PSY220Y/324H/SOC280Y/304Y/309Y/313Y/324Y/329H/330H/335Y.

*Credit can also be given for certain courses offered only on St. George campus. A specialist programme in this field can also be completed on the St. George campus; to plan this, consult the faculty coordinator during the first year.

Philosophy (B.A.)

Specialist Programme S02315

9 full courses (or the equivalent) in Philosophy, at least 4 courses at the 300/400 level including at least 1 at the 400 level, are required. The programme must include the following courses:

1. PHL200Y,210Y,307H
2. PHL245H,345H
3. PHL277Y.

In addition, it is strongly recommended that students begin their study of Philosophy with a 100 series course. A student's programme must be approved by the staff Specialist Coordinator. This programme will normally be established by the end of the student's second year and confirmed at registration in subsequent years.

Major Programme M02315

7 full courses (or the equivalent) in Philosophy, at least 2 courses at the 300/400 level, are required. The programme must include the following courses:

1. PHL200Y,210Y
2. PHL245H
3. PHL277Y.

In addition, it is strongly recommended that students begin their study of Philosophy with a 100 series course. A student's programme must be approved by the staff Specialist coordinator. This programme will normally be established by the end of the Student's second year and confirmed at registration in subsequent years.

Minor Programme R02315

4 full courses (or the equivalent) in Philosophy, including at least one at the 300/400 level, are required.

Physical Chemistry

See Chemistry (Physical)

Physics (B.Sc.)

(Consult Department of Physics)

Specialist Programme S19445

12.5 courses required.

First Year: PHY135Y (minimum of 70% or P.I.)/140Y, MAT(112Y,232H)/(132Y,232H)/138Y (preferred),222H/248H.

Second Year: PHY224H,240Y,245H,257H,258H, MAT212H/258Y,368H.

Third/Fourth Year: PHY351H(G),352H(G),353H(G),355H(G),357H(G)/358H(G),457H(G),459H(G)/460H(G),MAT311H/APM346H(G)/351Y(G),MAT334H and 1.5 FCE Laboratory courses to include at least 0.5 FCE from PHY323H/324H/326H(G), the remainder from 305Y/306H,405Y(G)/406H(G),307Y(G)/308H(G),407Y(G)/408H(G),425Y(G)/426H(G).

Major Programme M19445

7 courses required.

First Year: PHY135Y/140Y,

MAT(112Y,232H)/(132Y,232H)/138Y.

Second Year: PHY224H,240Y,257H,258H, MAT212H/258Y.

Third/Fourth Year: PHY323H/324H, and three of PHY341H,342H,343H/344H, MAT311H.

Minor Programme R19445

4 courses required along with completion of the Mathematics Minor Programme.

First Year: PHY135Y/140Y.

Second Year: PHY224H,240Y,257H

Third/Fourth Year: Two of PHY341H,342H*,343H*/344H.

*Requires MAT311H as corequisite in MAT Minor.

Physics and Geology

See Geology and Physics

Political Science (B.A.)

Enrollment in Political Science Specialist, Major and Combined Specialist programmes is limited.

Specialist Programme S20155

10-12 POL courses (to include four 300/400 series courses of which at least two must be 400-series courses).

Students enrolling at the end of first year (four courses) must obtain a CGPA of at least 1.80 and a mark of at least 62% in one POL course. Students applying to enroll after second year (eight courses) must obtain a CGPA of at least 2.00 and a mark of at least 65% in each of two POL courses.

First Year: POL100Y

Higher Years:

1. POL200Y,320Y
 2. One course from each of three of the following four fields: Comparative Politics (Developing); Comparative Politics (Industrial); International Relations; Public Policy and Public Administration (See Departmental Handbook for breakdown of courses into fields)
 3. Four additional POL courses
- Recommended:** ECO100Y.

Major Programme M20155

7-8 POL courses (to include at least two 300/400 series courses).

Students enrolling at the end of first year (four courses) must obtain a CGPA of at least 1.80 and a mark of at least 62% in one POL course. Students applying to enroll after second year (eight courses) must obtain a CGPA of at least 2.00 and a mark of at least 65% in each of two POL courses.

First Year: POL100Y

Higher Years:

1. POL200Y
2. One course from each of two of the fields in 2. of the Specialist Programme
3. Three additional POL courses

Minor Programme R20155

4 POL courses (to include at least one 300/400 series course and no more than one at the 100-level).

Political Science and Economics

See Economics and Political Science

Political Science and History

See History and Political Science

Population and Society (B.A.)

Faculty Coordinator: Dr. M. Richard (Sociology) Telephone: 828-5315

This approved area of study is designed:

- a) to introduce students to the place of population issues in modern society and
- b) to develop in students basic demographic skills operable in academic, social service, planning and marketing agencies.

Major Programme M09255

A minimum of 7 full course equivalents are required including at least two 300/400 series courses.

5 full course equivalents (including prerequisites).

SOC101Y/216Y,200Y/201Y/300Y,312Y, ANT210Y/305Y,SOC422H/423H.

Optional Courses: Two full course equivalents to be selected from the following: ANT204Y,334Y,433H,434H,HIS248Y,487Y, GGR245Y,252H,357H,381H,SOC205Y,220Y, 330H.

Professional Writing

Faculty Coordinator: Professor P. Saunders
Telephone: 828-3858

The term "Professional Writing" refers to those documents currently written by business personnel, scientists, technologists, and documentation specialists. Among these forms are reports, proposals, journal articles, newsletters, manuals, memoranda and letters. During the course of the programme, students are encouraged to explore the application of computer technology to the design of these documents.

Students from all disciplines of study can expand their career options and gain a "competitive edge" over graduates from other universities by taking a minor programme (six half courses) in Professional Writing. Course descriptions are listed under "Writing, Professional" see Section 8.

Minor Programme R13025

4 courses required.

To complete the Minor Programme in Professional Writing, students must complete six WRI half courses, plus one course offered by another discipline in which the writing component provides students with an opportunity to develop their skill in writing expressive, referential (business or scientific), or persuasive writing. Suggested courses include ENG100H,110Y,120Y;ANT209Y, 210Y,212Y,241Y;FAH101Y,102Y;POL100Y. Students should contact the Director of the Professional Writing Programme and indicate course selections.

Students are encouraged to become computer literate by taking either CSC104H How Computers are Used or CSC158H Computer Applications.

Psychology (B.Sc.)

Enrolment Limitations for the Psychology Major and Specialist Programmes on the Erindale Campus

- 1) To be eligible for admission to the psychology major programme, a student must have completed four (4) full courses or the equivalent and have earned a grade of at least 60% in PSY100Y. To be eligible for admission to the psychology specialist programme, a student must have completed four (4) full courses or the equivalent and have earned a grade of at least 70% in PSY100Y.

- 2) Students who have NOT earned a sufficiently high grade in PSY100Y to be admissible to the psychology major or specialist programmes may repeat PSY100Y *once* without academic credit and will become admissible to the major or specialist programmes if a grade of 60% or 70% respectively is earned on the second attempt. Alternatively, students who have passed PSY100Y with a mark less than that required for entrance to the major or specialist programmes in psychology may enrol in any psychology courses for which PSY100Y is the only prerequisite provided space is available in the courses. Such students will be eligible for admission to the psychology major or specialist programme upon the completion of nine (9) course credits if they earned a sufficiently high average in at least three (3) psychology half courses or the equivalent undertaken after PSY100Y. The required averages in psychology courses undertaken after PSY100Y are 60% for admission to the major programme and 70% for admission to the specialist programme.
- 3) Beginning with courses offered in the fall of 1990, admission to *all* winter-session psychology courses except PSY100Y which are offered on the Erindale Campus will be based on the results of balloting during the spring of the previous academic year. Priority will be given to Erindale students in psychology, animal behaviour and exceptionality programmes.

Specialist Programme S11605

10 full courses in Psychology or their equivalent are required. *All candidates for specialization must take PSY100Y and PSY201H. Students should note that the prerequisite for PSY201H is any OAC Mathematics, or an appropriate first year math course. In addition, the remaining 8 1/2 full courses must satisfy the distribution requirements listed below in section II.2 and III.1 and the laboratory requirement in section III.2. The student interested in specializing in Psychology should take into account distribution requirements as well as course prerequisites in planning the remaining 8 1/2 courses. It should be noted that a single course may not be used to satisfy more than one distribution requirement or to satisfy the laboratory requirement and a distribution requirement.

*Students may not take more than 12 full courses in Psychology without permission of the Department.

- I. PSY100Y
 II. 1) PSY201H
 2) One course, full or half, from each category:
 a) Biological Bases of Behaviour: PSY252H/280Y/290Y
 b) Developmental and Social Processes: PSY210Y/220Y/230H
 c) Cognitive Processes: PSY260H/270Y/280Y

NOTE: PSY280Y can satisfy either II.2 a or c, but not both.

- III. 1) One course, full or half, from each category:
 a) Biological Bases of Behaviour: PSY324H/354H/381H/393H/394H/480H/489H/490H/499H
 b) Developmental and Social Processes: PSY311H/314H/315H/316H/320H/324H/331H/332H/340Y/341H/410H/419H/420H/429H/430H/440H/442Y
 c) Cognitive Processes: PSY314H/315H/331H/373H/374H/376H/381H/393H/471H/479H/480H/489H
 2) One laboratory course or equivalent: PSY409H/419H/429H/479H/489H/499H
 3) Sufficient additional courses in Psychology to meet the requirement of 10 full courses in Psychology. At least 5 must be at a level of 300 or 400. Of these 5, at least one must be a 400 level credit.

Courses at 300 and 400 level which satisfy the requirement of III.1 and III.2 can count toward the requirement of at least four full courses at the 300 level and one full course at the 400 level. Psychology courses which meet the requirements in I and II can be counted toward the total requirement of 10 full courses in Psychology. Requirements of II.1 and II.2 are recommended in second year. Students are encouraged to take a laboratory course or PSY409H in their third year even though these are 400 level courses. Candidates for the specialist programme should meet with their faculty advisor and have their programme approved.

NOTE: A student choosing PSY409H to satisfy the laboratory requirement in section III.2, must, in addition, take a limited enrolment course at the third or fourth year level (i.e., a seminar course, an independent study course, or the thesis course). A student choosing a laboratory course to satisfy section III.2 is not required to take an additional limited enrolment course.

Major Programme M11605

6 full courses or the equivalent number of half courses are required for a major in Psychology. PSY100Y must be one of these 6 courses. Students must satisfy section II.2 of the specialist programme. Courses which satisfy section II.2 can be counted toward the requirement of 6 full courses. At least 2 of these 6 courses must be at level 300 or 400.

Religious Studies (B.A.)

Specialist Programme S01515

10 RLG courses are required.

First Year: RLG100Y

Higher Years:

1. RLG200Y(G);
2. Four 300/400+ series courses (including one at the 400 level);
3. Four other courses, no more than two of which may be from cognate disciplines;
4. Course selection must ensure that more than one religious tradition is studied (RLG100Y does not fulfill this requirement).
5. Course selection must ensure depth of study and focus in one area or stream of specialization.
6. A RLG faculty advisor must be chosen to assist in designing a coherent programme and to review annually the student's course selections.

NOTE: Typical areas of specialization include: Religions of the West; Religions of the East; Scriptures; Philosophy of Religion. For Erindale students, specialist and major programmes in Religion, Ethics and Society can be completed in their entirety on the Erindale campus. For details of these programmes, consult a RLG faculty advisor or the departmental handbook.

Major Programme M01515

6 RLG courses are required.

First Year: RLG100Y

Higher Years:

1. RLG105Y, or a St. George equivalent course on a religious tradition or methods in the study of religion;
2. Four other courses, one of which may be from a cognate discipline and two of which must be at the 300/400 series.
3. A RLG faculty advisor must be chosen to assist in designing a coherent programme and to review annually the student's course selections.

Minor Programme R01515

4 RLG courses are required.

First Year: RLG100Y

Higher Years:

1. One 300/400 series course;
2. Two other courses, neither of which may be from cognate disciplines.

Sociology (B.A.)

Specialist Programme S10135

- 1) At least 9 SOC courses are required.
- 2) **General Requirements:** SOC101Y,200Y/201Y/300Y and 203Y/313Y (*strongly recommended to be taken as early as possible in the programme*).
- 3) **Course level requirements:**
At least three SOC courses in the 300/400 series and one SOC course in the 400 series. Because only a few fourth-year courses are offered in any given year, the fourth-year seminar does not have to be one of the three courses required for a students sub-specialty area.
- 4) **Concentration Requirements:**
A minimum of three full courses, or equivalent (in addition to those required in #2 above) must be chosen in one of the six sub-specialty areas listed below.

The subspecialty areas are:

- a) **Theory and Methods:** SOC200Y,201Y/300Y, 203Y,313Y,319Y,321H,322H,387Y, 410H, 411H, JGS340Y.
- b) **Societies:** SOC206Y,220Y,231Y,304Y, 312Y,324Y,411H,422H,423H,431H.
- c) **Interaction:** SOC202Y,214Y,215Y,217Y, 245Y,315Y,326H,329H,420H, 421H,431H.
- d) **Inequality:** SOC210Y,212Y,301Y,303H, 306Y,330H,365Y,422H,423H.
- e) **Urban Life:** SOC205Y,207Y,305Y, 311Y,317Y,325Y,327Y,328H,329H, 346Y, 422H,423H,JGS340Y.
- f) **Communication:** SOC152Y (*strongly recommended to be taken during the first or second year*), 280Y,284Y,308Y, 309Y,334Y,335Y,420H,421H,431H.

Major Programme M10135

- 1) At least 6 SOC courses are required.
- 2) SOC101Y,200Y/300Y,203Y/313Y *strongly recommended to be taken as early as possible in the programme*.
- 3) At least two SOC courses (in addition to those required in #1 above) must be chosen in one of the six subspecialty areas listed under the Specialist Programme.
- 4) Of the six SOC courses, two must be from the 300/400 series.

The subspecialty areas are:

- a) **Theory and Methods:** SOC200Y,201Y/300Y, 203Y,313Y,319Y,321H,322H,387Y, 410H, 411H, JGS340Y.
- b) **Societies:** SOC206Y,220Y,231Y,304Y, 312Y,324Y,411H,422H,423H,431H.
- c) **Interaction:** SOC202Y,214Y,215Y,217Y, 245Y,315Y,326H,329H,420H,421H,431H.
- d) **Inequality:** SOC210Y,212Y,301Y,303H, 306Y,330H,365Y,422H,423H.

- e) *Urban Life*: SOC205Y,207Y,305Y,311Y,317Y,325Y,327Y,328H,329H,346Y,422H,423H,JGS340Y.
- f) *Communication*: SOC152Y (*strongly recommended* to be taken during the first or second year), 280Y,284Y,308Y,309Y,334Y,335Y,420H,421H,431H.

Minor Programme R10135

At least 4 courses are required.
SOC101Y and 3 other SOC courses, one of which must be in the 300/400 series.

NOTES: For SOC201Y/300Y,ECO220Y/STA202H,212H/PSY201H,202H/PSY201H,PSY309H will be regarded as equivalent. STA242Y is not regarded as equivalent. SOC101Y/216Y is a prerequisite for most other SOC courses. Instructors in subsequent courses will assume that the student has the background knowledge provided by the courses' prerequisites.

Spanish (B.A.)

Major Programme M06235

7 SPA courses are required.

First Year: SPA100Y/220Y

Second Year:

1. SPA220Y/320Y
2. Plus one or two SPA courses from the 200-series if not taken in First Year

Third (and Fourth) Years:

1. SPA320Y,350Y
2. SPA420Y,425H are recommended for students who start in SPA100Y. SPA420Y, 425H are required for students who start in SPA220Y or higher language course.
3. Plus additional SPA courses from the 300/400 series (including a half course in Spanish American literature) to make seven courses.

Minor Programme R06235

4 SPA courses are required including SPA320Y.

Statistics, Applied (B.Sc.)

Specialist Programme S15405

9.5 to 10 courses are required.

1. MAT(112Y,232H)/(132Y,232H)/138Y
2. CSC148H,158H
3. STA262Y/242Y with B or better/ECO227Y
4. MAT248Y,258Y,378H,388H
5. STA301H,302H,312H,402H,437H,457H
6. 1 additional half course from MAT334H/CSC350H/354H or any other STA half course at the 300/400 series (except STA300H(G)).

Major Programme M15405

6 to 7 courses are required.

1. MAT(112Y,232H)/(132Y,232H)/138Y
2. CSC108H/148H
3. MAT222H/248Y
4. STA242Y/262Y/ECO227Y,STA302H,402H
5. Three additional half-courses from (STA301H/312H/437H/457H or any other STA course at the 300/400 series)
6. 1 additional half course at the 300/400 series from STA/CSC/MAT.

Minor Programme R15405

4 courses are required.

1. MAT112Y/132Y/138Y
2. STA242Y/262Y/ECO227Y
3. 2 additional full STA course equivalents (including at least 1 full course equivalent at the 300/400 series).

Surveying Science (B.Sc.)

Specialist Programme S08775

14 courses are required.

Recommended first year of study:

MAT112Y/132Y/138Y,PHY135Y/140Y,GGR117Y,CSC104H/108H/148H,WRI203H/205H,SUR201H,202H. (See Note)

Recommended second year of study:

ECO100Y,STA202H,SUR203H,210H,251H,261H,235H.

Third/Fourth Year: SUR311H,320H,361H,405H,458H,455H/495H, and two full course equivalents selected from Surveying Science subjects at the 300 and 400 levels.

NOTE: For those electing to specialize in Geodetic Surveying, GSC120H and 110H are recommended as the alternative to GGR117Y; and also the higher level mathematics (MAT138Y) and physics (PHY140Y) should be taken; see the Surveying Science Faculty Advisor.

Major Programme M08775

6.5 courses are required.

MAT112Y/132Y/138Y,PHY135Y/140Y,STA202H,SUR201H,202H,203H,210H and any two full course equivalents selected from Surveying Science subjects at the 300/400 level.

Minor Programme R08775

4 courses are required.

SUR201H,202H and three additional full course equivalents in Surveying Science, one of which must be at the 300/400 series level. Arrange with Faculty Advisor.

Theatre and Drama Studies

See Drama

Urban Studies (B.A.)

Faculty Co-ordinator: Professor G.H.K. Gad
(Geography) - (828-3932)

The Urban Studies Programme is characterized by a unifying theme, not by any one perspective or methodology. The unifying theme for Urban Studies could be described as the study of the forces which give rise to towns and cities, the public policies directed at urban settlements, and the effects these particular forms of settlement have on society in a broad sense. The Urban Studies Programme enables the student to apply the viewpoints and methods of various disciplines to urban phenomena.

Major Programme M22075

8 full course equivalents are required. There are two entry ways into the Urban Studies programme: one through GGR117Y and two other introductory courses and the other through two introductory courses and a methodology course.

First Year: either GGR117Y and two of ECO100Y, FAH101Y/102Y, HIS262Y, POL100Y, SOC101Y
or two of ECO100Y, FAH101Y/102Y, HIS262Y, POL100Y, SOC101Y.

Second Year:

1. GGR218Y
2. ECO220Y/SOC200Y/300Y/STA202H, 212H/242Y/262Y if GGR117Y was not taken in first year.
3. One 200-level full course equivalent from Groups A-F.

Third/Fourth Years:

1. GGR346H
 2. Two and a half 300-level full course equivalents from Groups A-F
- Group A (Economics): ECO333Y, GGR221H/252H
Group B (Art History): FAH211H, 256H, 258H, 365H
Group C (Geography): GGR349H, 357H, 361H, 364H, 366H
Group D (History): HIS487Y
Group E (Politics): POL209Y, 331H
Group F (Sociology): SOC205Y, 304Y, 328H

In selecting courses from Groups A-F no more than one full course equivalent can be taken from any group.

Study Elsewhere Programme

Chairperson of Committee: Professor R.O. Matthews (978-6567)

Secretary of Committee: Ms. E.M. Ishibashi (978-6161)

Administrative Assistant: Ms. B. Jaworski (978-4060)

Further Information

The Committee on Study Elsewhere has prepared an Information booklet which is available at the Office of the Faculty Registrar of the Faculty of Arts and Science, 100 St. George Street, Room 1006, University of Toronto, Toronto, Ontario, M5S 1A1 or at one of the Information Meetings. The names and telephone numbers of the Departmental Advisers for the Study Elsewhere Programme are available with the Information and Application booklet. The Departments of East Asian Studies, French, and Near Eastern Studies provide further information. This booklet also contains the names and telephone numbers of previous participants who are willing to provide information to interested students.

Writing, Professional

See Professional Writing

8 Course Descriptions

In this calendar, courses are designated by their credit value as follows:

- Y Full credit course
H Half credit course

To determine the periods of instruction, refer to the *Timetable and Registration Instructions* where the following course suffixes apply:

- A Full course given in the first term of a session.
B Full course given in the second term of a session.
F Half-course given in the first term of a session.
H Half-course extending over both terms of a session.
S Half-course given in the second term of a session.
Y Full course extending over both terms of a session.
Z Course for which no credit is given.

In the Winter Session course duration is:

Y & H courses - 26 weeks

A,B,F & S courses - 13 weeks

Total hours of instruction are indicated by codes at the end of the course description:

- 52L 52 lecture hours
26P 26 laboratory or studio hours
52S 52 seminar hours.
26T 26 tutorial hours

Symbols Used in Course Description and Programme Requirements:

- (P.I.) Permission of instructor required to enrol.
(I) Open to first-year students (shown after course number).
(G) Course available only on the St. George Campus.
(,) comma)
(;) semi-colon) means AND
(&) ampersand)
(/) solidas symbol) means OR

NOTE: In the biological and science teaching programme there may be occasions when anatomical, biochemical, physiological and pharmacological observations are made by students on themselves or on fellow students. These include some common diagnostic or immunization procedures. Unless a valid reason exists, students are expected to participate in such exercises. If any investigative work involving student participation does not form part of the teaching programme, participation is voluntary.

Emeritus Professor

R. Vanderburgh, B.A., M.A., Ph.D.

G. Crawford, B.Sc., M.A., Ph.D.
M. Kleindienst, B.A., M.A., Ph.D.
J. Melbye, B.A., M.A., Ph.D.
L. Reinhardt, B.F.A., M.A., Ph.D.
B. Sigmon, B.A., M.A., Ph.D.
D. Smith, B.A., M.A., Ph.D.

Discipline Representative and

Faculty Advisor: Professor M. Kleindienst
Room 212A - 828-3784

Anthropology is the study of human biology and culture and the interaction between the two. Courses are offered in three subfields of anthropology. Physical Anthropology is the biological study of humans and their relatives within the framework of culture. Biological studies include human osteology, human palaeontology, human genetics and adaptation, human growth, and primatology. Socio-Cultural Anthropology is the study of the way of life of peoples throughout the world: technologies, economies, societies, languages, and value systems; the functional interrelationships of these; and the relationship between culture and environment. Archaeology is the study of the physical remains of extinct cultures (e.g., habitations, tools, food remains). The goal of archaeologists is to reconstruct the cultures of the past and to trace their development from earliest times. Conclusions are drawn about the interaction of cultural and physical processes.

The Anthropology programme offers the student the general background necessary for the advanced training required for professional positions. It is the special concern of the faculty to introduce students to research methods and to involve them in the research programmes of the department. Students planning an anthropology concentration should consult faculty members for advice.

Anthropologists are employed as faculty in universities and colleges, as researchers in museums, and by government. For additional information see *Anthropology as a Career* by Wm. C. Sturtevant and *The Study of Anthropology* by Morton Fried, available at the Erindale College Library.

See page 23 for Anthropology courses considered as Science courses. Other ANT Science courses are offered on the St. George Campus.

NOTE: Consult timetable for current offerings.

ANT100Y Introduction to Anthropology

Anthropology is the global and holistic study of human biology and behaviour. This course is a survey of anthropology which includes four subfields: archaeology, linguistics, social/cultural, and physical anthropology. The material studied is directed to answering the question: What is it to be human? [52L, 26T]

ANT200Y Introduction to Prehistoric Archaeology

Cultures in the Old and New Worlds from an archaeological perspective. Principles of prehistoric research will be applied to archaeo-logical information, from the Early Pleistocene to the beginning of written history. [52L, 26P]

Exclusion: ANT201Y, 226Y

Prerequisite: ANT100Y

ANT203Y Physical Anthropology

A survey of the field of physical anthropology. Topics will include human evolution and palaeontology, skeletal biology, human genetics and variation, human growth, primatology and human adaptation. [52L, 26T]

Prerequisite: ANT100Y

Recommended Preparation: Basic high school or university biology course

ANT204Y Social and Cultural Anthropology

A general introductory course emphasizing social and political organization, economics, and the development of theory. Specific cases of social dynamics are drawn from both traditional and contemporary societies. [52L, 26T]

Prerequisite: ANT100Y

ANT207H Introduction to Ethnographic Field Techniques

Recommended for those who may specialize in anthropology. Oriented around student projects; covers multiple aspects of field and research methodology (problem design, interviewing, record-keeping, etc.). [26L] Offered in alternate years.

Prerequisite: ANT100Y

ANT209Y(I) Religious Behaviour and Systems of Thought

A comparative view of myth, ritual and philosophical systems with emphasis on the religion of non-literate peoples. [52L, 26T] Offered in alternate years.

ANT210Y(I) The Anthropology of Art

Comparative approaches to art and aesthetics in world cultures and the meaning and function of art in specific cultural contexts. [52P] Offered in alternate years.

ANT212Y(I) Traditional and Contemporary African Cultures

Survey of traditional African cultures and institutions from their Iron Age roots to the present, emphasizing internal development, global interconnections and continuing transformations since the reassertion of independence in mid-century. [52L]
Offered in alternate years.

ANT228H Archaeological Fieldwork I

Practical experience on an archaeological site during the last two weeks of August, followed by weekly laboratory sessions September to December. [26P]
Exclusion: ANT311H
Prerequisite: ANT200Y, P.I.

ANT231H Laboratory Methods in Physical Anthropology

Recommended for those who may specialize in physical anthropology. The student will be guided in basic laboratory procedures on specific topics as they are discussed in the survey course. [52P]
Prerequisite/Corequisite: ANT203Y

ANT241Y(I) Indians of North America

Survey of native cultures and discussion of the role of environmental and historical factors. [52L]

ANT301H Visual Communication

Major approaches to the study of visual communication are studied. Bodies of visual materials, both documentary and commercial are analysed in terms of social and cultural contexts. Student projects may involve the use of still, movie, video filming and archival sources. [39P]
Prerequisite: ANT100Y, P.I.
Offered in alternate years.

ANT304H Change in Canadian Indian Societies

A seminar course examining the application of such concepts as "acculturation", "adaptation", etc. to Canada's changing Native population. [26L]
Prerequisite: ANT204Y/241Y, P.I.
Offered in alternate years.

ANT305Y Technology, Society and Culture

The role of technology in social and cultural change and adaptation, including an introduction to basic techniques and their historical development. [78P]
Prerequisite: P.I.
Offered in alternate years.

ANT308H African Prehistory I

Surveys the archaeology of the African continent, from the earliest cultural evidence through the "Middle Stone Age" (ca. 2 myr to ca. 30,000 b.p.). [26L]
Exclusion: ANT314Y/314H
Prerequisite: ANT200Y

ANT310H Prehistory of Complex Societies

A survey of prehistoric complex societies, including the rise of states in Mesopotamia, Harappa, China, Japan, Mexico, and South America. The current status of our knowledge of these states, including reasons for some early states to fail, will be reviewed. [26L]
Prerequisite: ANT200Y

ANT311Y Archaeological Fieldwork II (Formerly ANT311H)

Practical field training through six weeks of excavation on an archaeological site in Ontario. Basic principles of artifact handling and classification. [52P]
Prerequisite: ANT200Y, P.I.

ANT312H Archaeological Analysis

Examines the process whereby archaeological data become meaningful. [39P]
Prerequisite/Corequisite: ANT200Y

ANT313H East Asian Prehistory

Surveys the archaeology of East Asia and relates the data to more general issues in the study of prehistory. [26L]
Prerequisite: ANT200Y

ANT317H Archaeology of Eastern North America

Chronology and analysis of the prehistoric culture areas and stages of Eastern North America. [26L]
Prerequisite: ANT200Y

ANT319H African Prehistory II

Surveys the archaeology of the African continent during the "Later Stone Age" and the "Iron Age" (ca. 30,000 yrs. to ca. 1,000 yrs. b.p.). [26L]
Exclusion: ANT314Y/314H
Prerequisite: ANT200Y

ANT327H Origins of Food Production

The history of food production in the Old and New World. Archaeological data are used to examine the processes of animal and plant domestication as well as the cultural impact of food production. [26L]
Recommended Preparation: ANT200Y/201Y

ANT330H The Biology of Sexual Differences

An exploration into the bases of human sexual differences, considering both genetics and environment. [26L]

Prerequisite: ANT203Y and a basic high school or university biology course.

Offered in alternate years.

ANT332Y Human Origins

A survey of human palaeontology and the evolutionary stages through which man passed in becoming *Homo sapiens*. [52L, 26P]

Prerequisite: ANT203Y and a basic high school or university biology course

ANT334Y Human Osteology

Includes normal anatomy of the human skeleton, metrical and morphological variation, age and sex determination, palaeodemography, palaeopathology, palaeonutrition, and techniques of recovering, preserving and recording human remains. [26L, 52P]

Prerequisite: ANT203Y/P.I.

ANT339H Human Adaptability

A survey of the nature and range of biological variation in modern man. [26L]

Prerequisite: ANT203Y/P.I.

ANT343H Social Anthropology of Gender
Various theoretical approaches to the study of sex roles in traditional, modernizing, and industrial societies. [26L]

Prerequisite: ANT100Y

Offered in alternate years.

ANT351H Ethnographic Film

A historical survey of ethnographic film, from classics produced early in this century to the present. Seminar presentations provide background for each film. [39S]

Prerequisite: ANT100Y/204 and P.I.

Offered in alternate years.

ANT397H Independent Study

Supervised reading in selected anthropological topics. [T]

Prerequisite: Permission of Faculty Advisor

ANT398Y Independent Reading

Supervised reading in selected anthropological topics. [T]

Prerequisite: Permission of Faculty Advisor

ANT399Y Independent Research

Supervised research in anthropology. [T]

Exclusion: ANT430Y

Prerequisite: Permission of Faculty Advisor

ANT411H Archaeological Theory

An evaluation of explanatory processes in prehistory and a comparison of archaeological theories with general anthropological theories (alternates with ANT416H) [26L]

Prerequisite: ANT200Y/201Y/226Y

ANT412H Advanced Archaeological

Fieldwork and analysis of artifacts. [26L]

Prerequisite: ANT311H, P.I.

ANT415Y Faunal Archaeo-Osteology (Formerly ANT415H)

Examination and interpretation of faunal material from archaeological sites, to obtain cultural information regarding the site occupants. [78P]

Prerequisite: ANT200Y

Recommended Preparation: ANT312H/311H/334Y

ANT416H Archaeological Interpretation

Techniques used to transform statements about artifacts and their context of discovery into statements about people and their life ways. [26L, 13T]

Prerequisite: ANT200Y/201Y/226Y

Offered in alternate years.

ANT430Y Special Problems in Physical Anthropology

Supervised independent research in Physical Anthropology for students requiring science credit. [T]

Exclusion: ANT399Y

Prerequisite: P.I.

ANT432H Special Seminar In Anthropology

A research oriented seminar with topics that may vary from year to year depending on special interests of staff and students. [T]

Prerequisite: P.I.

ANT434H Palaeopathology

The study of diseases and maladies of ancient populations. The course will survey the range of pathology on human skeletons, (trauma, infection, syphilis, tuberculosis, leprosy, anemia, metabolic disturbances, arthritis and tumors). [26S]

Prerequisite/Corequisite: ANT334Y.

ANT438H The Development of Thought in Physical Anthropology

This course will present a world-wide perspective of Physical Anthropological research and how it developed in different countries. To be discussed will be variation in approaches, subjects studied, philosophical attitudes, and the emergence of common themes in the study of Physical Anthropology. [26L]

Prerequisite: ANT203Y and two other courses in Physical Anthropology.

ANT439Y Forensic Anthropology

Forensic anthropologists are often called upon by law enforcement officials and defense lawyers to identify the remains of victims of murder, mass disasters and atrocities.

Special methods are used in the recovery and identification of human skeletal remains for presentation in a court of law. [26L, 52P]

Prerequisite: ANT334Y

APM courses have been renumbered as MAT courses.

ANT499Y Advanced Independent Research

For students whose original research is leading towards a publishable report. [T]

Prerequisite: Permission of Faculty Advisor

S.A. Eales, B.A., M.A., Ph.D.
J.B. Lester, B.A., M.Sc., Ph.D.
J.R. Percy, B.Sc., M.A., Ph.D.

*Discipline Representative and
Faculty Advisor:* Professor John B. Lester
Room 4035, South Building
Office Hours by Appointment
Telephone: 828-3818

Astronomy, of all the sciences, is perhaps the most wide-ranging in its content and in its implications. It embraces such topics as the origin and evolution of the planets, stars, galaxies and the whole universe; the origin of life on earth and elsewhere; the behaviour of matter in environments never experienced on earth, and in general, the influence of the universe on mankind's thinking down through the ages. Because of its breadth, it has always formed a valuable part of a general education. With this in mind, we offer courses of interest to every student at Erindale. Three of these are introductory courses. AST101H and AST201H are both intended for students from outside the sciences. AST101H introduces the student to the historical background of astronomy and continues through to the modern discoveries about the solar system and the development of modern telescopes and observatories, both on the ground and in space. AST201H surveys the structure and evolution of the stars, galaxies, quasars, and the universe as a whole. Students with a background in science can take AST110H, which provides an introduction to observing and analysis, including some computer modelling. AST251H is a unique interdisciplinary course that examines the broad topics of the nature of life, its origin and evolution on earth, and its possible existence elsewhere in the universe. This course is intended for students who have some background in the life or physical sciences, either at the O.A.C. level or in university. A related course that may also be of interest is GSC237H, which deals with solar system objects from a geological perspective. The Astronomy Department sponsors a specialist programme in Astronomical Sciences and a major programme in Astronomy, both of which are outlined in Section 7 of this Calendar. Students interested in either of these programmes should consult the Astronomy Faculty Advisor at Erindale as early as possible in their first year. The Faculty Advisor can also provide information and advice about the astronomy courses and programmes available on the St. George Campus.

AST101H Solar System Astronomy

This course traces our understanding of solar system objects from prehistoric times to the present. The impact of telescopes and space observatories is outlined. This course is for students with NO science background or those who do not intend to specialize in science. This course contributes to science credits for distribution purposes only, not toward the B.Sc. [26L, 13T]

Exclusion: AST100Y, 110H, 120Y, 200H, any university physics course, or a 200 or higher level course in chemistry.

AST110H Practical Astronomy

This course gives a quantitative, scientific introduction to observing, concentrating on objects that can be seen with the naked eye or with binoculars. The measurements will be combined with calculations to yield quantitative conclusions and predictions. Computer programmes are used to understand the observations more completely. This is the first course for students following the major in astronomy or the specialist in astronomical sciences, but it is also suitable for students with the appropriate background who want to understand more fully the celestial phenomena visible to them. This is a half course that extends over the full academic year. [26L, 26T]

Exclusion: AST225H

Recommended Preparation: O.A.C. Physics, O.A.C. Calculus, Algebra and Geometry.

AST201H Stars and Galaxies

This course surveys current ideas about the structure and evolution of astronomical objects ranging from the stars to the universe as a whole. This course is intended for students with NO science background or those who do not intend to specialize in science. This course does not require AST101H, but it may be combined with AST101H for a full-course credit in science for distribution purposes.

Exclusion: AST100Y, 120Y, 200H, any university physics course, or a 200 or higher level course in chemistry.

AST251H(I) Life and the Universe

The course examines several questions of broad relevance to the physical and biological sciences: the origin of the chemical elements; the formation of simple and complex molecules in astronomical environments; the origin, nature and evolution of planetary systems; the origin and nature of life and life processes; the search for extraterrestrial life through planetary exploration and interstellar communication. [26L]

Exclusion: NEW251H(G)

Recommended Preparation: A basic knowledge of physical and/or biological science at the grade 13 level or beyond. Offered in alternate years.

AST425H Research Topic In Astronomy

Consists of a research report by the student in consultation with an individual staff member in the department. Students must enrol with the faculty advisor of the department on the Erindale Campus.

Prerequisite: PHY356H(G)

Botany

J.B. Anderson, B.A., Ph.D.
P.W. Ball, B.Sc., Ph.D.
W.R. Cummins, B.Sc., Ph.D.
G.S. Espie, B.Sc., Ph.D.
W.G. Filion, B.A., M.Sc., Ph.D.
P.A. Horgen, B.A., M.Sc., Ph.D.
L.M. Kohn, B.Sc., Ph.D.
P.F. Maycock, B.A., M.Sc., Ph.D.
J. Svoboda, B.Sc., Ph.D.
G.R. Thaler, M.Sc., Ph.D.

Zoology

T.M. Alloway, B.A., M.A., Ph.D.
R.L. Baker, B.Sc., M.Sc., Ph.D.
N.C. Collins, B.A., Ph.D.
J.H. Fullard, B.Sc., M.Sc., Ph.D.
D.L. Gibo, B.A., Ph.D.
D.T. Gwynne, B.Sc., Ph.D.
A.B. Lange, B.Sc., Ph.D.
G.K. Morris, B.S.A., M.Sc., Ph.D.
D. O'Day, B.Sc., M.Sc., Ph.D.
G.A. Proteau, B.Sc., Ph.D.
R.R. Reisz, B.Sc., M.Sc., Ph.D.
W.G. Sprules, B.Sc., M.A., Ph.D.
F.M. Szeicz, B.Sc., Ph.D.

Discipline Representative (Zoology):

Professor R.L. Baker

Discipline Representative (Botany):

Professor J. Svoboda

Faculty Advisor: Dr. F. Szeicz
Room 2043
828-5366

Biology is the science of living organisms. It relates to such major human problems as starvation, overpopulation, conservation, pollution, and to the whole field of medicine and disease.

Botanists and Zoologists at Erindale cooperate closely in offering courses in Biology which stress the relationships of organisms in terms of structure, form, function, evolution and environment at many levels of organization, from populations and individuals, through organs, tissues, cells and organelles, down to molecules.

Career opportunities open to graduates in Biology include teaching; governmental research in areas such as environmental problems, natural resources, wildlife management, conservation, pollution and pest control; business and industry, including biological supply companies, pharmaceuticals, food and dairy industries and biotechnology; medical, dental and related fields including physiological or microbiological research.

There are two introductory 100-level courses in Biology. BIO101Y is designed for students without OAC Biology, for whom it provides a means of entry into the Biology Programme in the following year.

BIO151Y replaces BIO201Y and has a prerequisite of OAC Biology. It is not, however, a prerequisite for any of: BIO202H, 203H, 204H, 205H. First year students intending to major or specialize in Biology and who have OAC Biology should enrol in one full course equivalent from the following selection of courses, all of which are of equivalent difficulty: BIO151Y, 202H, 203H, 204H, 205H. The remainder of these required courses can be taken in second year.

Further information on Biology courses and programmes, and summaries of the research interests of the Biology faculty, can be found in the Erindale Biology Handbook, copies of which can be obtained from the Biology Secretarial Office, Room 3032. The Biology Faculty Advisor, Dr. F. Szeicz, is available for help with choosing courses and discussing programme requirements. During term time the hours will be posted outside Room 2043. To arrange an appointment call 828-5366.

Beginning in the fall of 1993, admission to some 300- and 400-level Biology courses will be based on balloting during the previous spring. Priority will be given to students in the Biology Specialist Program, those in other specialist programmes which require Biology courses, and students in major programmes.

BIO101Y The Study of Life

The diversity of life forms and processes is analysed at the molecular, cellular, organismal, and community level of organization. A mix of lectures, special topic presentations, films, field trips, and laboratory exercises provides a broadly-based view of modern Biology. The course is an acceptable prerequisite for professional programmes. [78L, 39P]

Exclusion: 75% or more in OAC Biology/previous or concurrent University BIO courses (JBG230Y excepted).

BIO151Y Evolution and Biodiversity (Replaces BIO201Y)

The modern theory of evolution is used as an introduction to biology. The two main parts of the course present the consequences of Darwinian evolution: adaptations of organisms as a product of the main evolutionary mechanism - natural selection - and, how this mechanism and others produce the vast diversity of life on earth. [60L, 78P]

Exclusion: BIO201Y

Prerequisite: OAC Biology/BIO101Y

BIO202H(I) Cell Biology

An introduction to the dynamics of cell structure and function, with emphasis on the similarities and differences of plant, animal and microbial cells. Topics include: the structure and function of macromolecules, ribosomes, membranes, nuclei, mitochondria, chloroplasts, lysosomes, cytoskeleton and other cellular constituents. In the laboratory, students will learn some current techniques of cell biology, while familiarizing themselves with practical aspects of lecture subjects. [26L, 39P]

Prerequisite: OAC Biology/BIO101Y

Corequisite: CHM135Y/150Y

BIO203H(I) Introductory Genetics

Examples are drawn from prokaryotes and eukaryotes to illustrate the basic principles of Mendelian inheritance. Practicals will involve directed experiments illustrating these principles. [26L, 39P]

Prerequisite: OAC Biology/BIO101Y

Corequisite: CHM135Y/150Y

BIO204H(I) Introduction to Physiology

How animals and plants work. Follows food from ingestion through energy production to the work of the living system and finally excretion of waste. Topics covered include elementary biochemistry, nutrition, digestion, translocation and circulation, respiration, photosynthesis, hormones, muscles and nerves. [26L, 39P]

Prerequisite: OAC Biology/BIO101Y

Corequisite: CHM135Y/150Y

BIO205H(I) Ecology

An introduction to ecological principles emphasizing the structure and dynamics of populations, communities, and ecosystems. Practical sessions include field work in the vicinity of the College. A charge may be made to partially cover the cost of transportation provided for field trips. [26L, 39P]

Prerequisite: OAC Biology/BIO101Y

BIO206H Introduction to Microbiology

A survey of the major groups of microorganisms including bacteria, viruses, protozoa, and fungi. The structure and life history of representative organisms are examined. The importance of the biology of microbes will be discussed especially with regard to ecology, pathogenicity and the scientific impact of studying certain "Microbial model organisms" in elucidating important basic principles in biology. [26L, 39P]

Exclusion: MPL200Y (G)

Prerequisite: OAC Biology/BIO101Y, CHM135Y/150Y

NOTE: This course is *not* open to first year students.

JBG230Y(I) Man and Environment

Past and present man-environment relationships are examined; principles of ecology, environmental ethics and esthetics are outlined; crucial alternatives for man are discussed. Problems of current environmental concern - land use, material and energy resources, and pollution are considered and illustrated by case studies from different parts of the world. Given by the Departments of Biology and Geography. A charge may be made to partially cover the cost of transportation provided for field trips. [52L, 26T]

BIO300H Terrestrial and Freshwater Biology

This course will be offered at a field site in Ontario. It is designed for students who have not yet taken plant or animal ecology courses at the 300/400 level. Emphasis will be on principles and methods in plant and animal ecology, and on gaining familiarity with local flora and fauna. Opportunity will be provided for students to undertake projects of their own. The course is given in the two week period before the beginning of the fall term. Students must meet their own costs for board, lodging and transportation. Application forms and information on costs are available from Room 3032 in early January. Places are filled on a first-come, first served basis. Apply early!

Exclusion: BIO332Y,ZOO471Y(G)

Prerequisite: BIO205H and specific permission of coordinator, Professor N.C. Collins.

BIO301H Marine Biology

A field course at St. Andrews, New Brunswick, consisting of informal lectures and seminars with intensive field and laboratory work. Different marine habitats are examined in detail and the animals and plants associated with them are classified. Students carry out projects in which they are encouraged to develop their own ideas and interests. Lectures on special topics are given by the scientific staff of the Biological Station. Students are selected on the basis of their academic background, grades and career goals.

The course is given in the two-week period before the beginning of the fall term. Students must meet their own costs for board, lodging and transportation. Application forms are available in early March in Room 3032 and must be returned by March 31st.

Prerequisite: BIO205H and specific permission of instructor.

BIO302H Arctic Ecosystems

Summer field studies at Churchill, Manitoba, of approximately two weeks duration dealing with physical and biological aspects of arctic ecosystems. An individual research project is an essential part of the course. Details of the course will be announced in mid-January and students must apply to Prof. N.C. Collins, the field course co-ordinator, by March 1.

Prerequisite: BIO205H/P.I.

Offered in alternate years.

BIO304H Neurobiology

An expanded examination of the physiology of nervous systems. The course will investigate the electrophysiological properties of neurons and muscles, the role of the semipermeable membrane in bioelectricity, and the organization of neural circuits into higher-order processing systems (i.e. the central nervous system). Invertebrates and non-human vertebrates will be studied with particular attention to the evolution of nervous systems from nerve nets to brains. [26L, 39P]
Prerequisite: BIO204H/specific permission of the instructor

BIO305H Wildflowers of Southern Ontario

An introduction to the naturally occurring trees, shrubs, wildflowers and ferns of southern Ontario. You will learn to use keys to identify the commoner trees, shrubs and ferns, and to recognize the important families of flowering plants. A project involving the collection, preservation and proper labelling of plant specimens will be required. It is advantageous to commence the collection before term begins. Instructions may be obtained in Room 1153. [26L, 26P]

Exclusions: BIO355H

Prerequisite: BIO101Y/151Y/201Y/P.I.

BIO310H Physiology of Regulatory Systems

This course will examine the sub-organismal, physiological responses of an animal to various external stresses imposed by fluctuations in the environment. Topics covered will include the body's internal control of temperature (thermoregulation), salt and water balance (osmoregulation), nutrient levels (digestion and excretion), as well as the neural and hormonal control of these systems. [26L, 39P]

Prerequisite: BIO204H/specific permission of the instructor

BIO311H Biology of Forest Plants

North Temperate forest flowering plants have evolved a wide range of vegetative and floral growth patterns. Students will use over fifteen, greenhouse-reared native species to study the diversity of these patterns and their adaptive significance in the forest ecosystem. Topics include floral structure and function, plant breeding systems and fecundity, plant-pollinator relationships, life cycles of both plants and pollinators. Practical instruction will enable students to perform hand-pollinations to determine breeding systems, and to learn 35mm photography. [20L, 45P]

Prerequisite: BIO101Y/151Y/201Y, 205H (P.I. in special situations) plus written permission of the instructor for Year II students.

BIO312H Plant Physiology

The principal physiological processes, and the influence of environmental factors on them, will be studied in plants. Topics will include photosynthesis, water relations, mineral nutrition, translocation, respiration, general metabolism, and growth. These topics will be related to agriculture, ecology and biotechnology. [26L, 39P]

Prerequisite: BIO204H. Students without the required prerequisite are invited to obtain permission of the instructor

BIO314H Cytogenetics

Using the term Cytogenetics in its broadest sense, the course will examine aspects of biology which contribute to our understanding of the structure and behaviour of chromosomes. Topics will include an in depth study of meiosis, chromosome aberrations and evolution. Practicals will stress both experimental work and discussion sessions. [26L, 39P]

Prerequisite: BIO202H and 203H.

BIO315H Advanced Cell Biology

This course will use the information learned in BIO202H to introduce the students to many exciting new topics in cell structure and function. Areas of focus will include membrane structure and function, cellular communication, the cytoskeleton, cell movement and the structure and function of selected organelles. The lectures will include experimental data and analyses to reveal how hypotheses in the field are generated and experimentally tested. In the laboratory exercises, students will be introduced to commonly employed techniques such as cellular fractionation, polyacrylamide gel electrophoresis, spectrophotometry and radioisotopic labelling. [26L, 39P]

Prerequisite: BIO202H

BIO316H Field Course in Ecology

Students may choose from a variety of field courses offered through a cooperative arrangement among ecologists at ten Ontario universities. Most courses involve a two-week period at a field site in early May or late August, and require a major paper or project report be submitted within 6 weeks of course completion. A fee for room and board is usually charged over and above tuition. Lists of courses available are posted outside Room 3032 in January of each year, and applications are accepted beginning in mid-January. See the Erindale coordinator, Professor N.C. Collins, for further details. Students register for this course in the fall, after the course has been completed.

Prerequisite: Permission of Coordinator

BIO318Y Animal Behaviour

An introductory overview of the behaviour of animals presented from a zoological perspective for biology specialists. Behaviour is examined as the evolved result of interaction with other animals, such as predators, potential mates and other aspects of the environment. Other topics include behavioural genetics, development, communication, motivation and the control of behaviour by physiological mechanisms. [52L, 78P]

Exclusion: PSY 252H

Prerequisite: BIO151Y/201Y

BIO319H Invertebrate Zoology

Comparative morphology of the major invertebrate phyla: protozoans, coelenterates, flatworms, nematodes, molluscs, annelids, echinoderms, and arthropods. Students learn to recognize the larger taxa within these phyla and they discover design differences in the organ systems (digestive, locomotory, reproductive, etc.) of these animals. A collection of local, identified invertebrates is required. [26L, 39P]

Prerequisite: BIO151Y/201Y

Offered in alternate years.

BIO330H Plant Community Ecology

The interrelations of species, populations and ecosystems within the complex of world vegetation communities. Practical field work in regional systems offers experience in sampling, analysis, interpretation and report presentations. Practical training in conservation, environmental research and ecological consulting. [26L, 39P]

Exclusion: BIO330Y

Prerequisite: BIO205H

BIO331H Plants and Environment

How plants interact with their physical, chemical and biological environment. Topics include the importance of soil, nutrients and water; adaptation and habitat selection; radiation, temperature and energy balance; productivity herbivory. Practical work includes a class experiment; soil description, classification and analyses; winter/spring ecology; microclimate and water transport. [26L, 39P]

Exclusion: BIO330Y

Prerequisite: BIO205H

BIO332Y Freshwater Biology

A functional analysis of aquatic ecosystems, with emphasis on lakes. Lecture topics include: physical environments of lakes and streams; determinants of productivity of algae, zooplankton, fish and benthos; determinants of species structure of each of these groups; the processes of eutrophication and acidification. In the laboratory, aquatic measurement techniques and taxonomy and ecology of local plants and animals are emphasized. One two-day and two one-day field trips required. A charge may be made to partially cover the cost of transportation provided for field trips. [52L, 78P]

Prerequisite: BIO205H

BIO334H Entomology

An overview of the Class Insecta, emphasizing the functional morphology, physiology and behaviour of this most diverse and successful group of animals.

Laboratories involve learning to recognize common insect families. An insect collection is required. Special topics include the mechanics and evolution of insect flight and the economic importance of insects in (human) agriculture. [26L, 39P]

Prerequisite: BIO151Y/201Y

Offered in alternate years.

BIO335H Mycology

A study of the biology of fungi with emphasis on their life histories, morphology, classification, ecology and significance to man. Laboratory sessions will include the collection, culture, and identification of a wide variety of fungi. In addition, several experiments illustrating important aspects of fungal physiology and development will be performed in the laboratory. [26L, 39P]

Prerequisite: BIO151Y/any 200 level course in BIO.

BIO336H Experimental Mycology

This course is intended to complement BIO335H by examining fungal nutrition, growth, metabolism, vegetative interactions, mating, sporulation and spore germination. Fungal interactions with plant hosts and the utilization of fungi in industrial processes are also studied. Each lecture segment is accompanied by a laboratory experiment for which a written report is required. A working knowledge of the morphologies and life histories of the major fungal groups, as well as the basic methods for culturing and identifying fungi, is assumed. [26L, 39P]

Prerequisite: BIO335H.

BIO341H Advanced Genetics

A course designed to present the student with the following topics at an advanced level: extensions to Mendelian genetics, linkage and advanced mapping analyses, mutation, extrachromosomal inheritance, quantitative genetics, population and evolutionary genetics and genetics of behaviour. [26L, 13T]

Exclusion: BIO440Y

Prerequisite: BIO203H

Recommended Preparation: BIO202H

BIO352H Developmental Biology

Begins with the study of the way eggs and sperm are formed and how they interact during fertilization. Subsequently an analysis of the events of early development is detailed. Finally, selected topics of special interest to Developmental Biologists, such as regeneration, metamorphosis, and pattern and polarity, are studied. The frequent use of live material in the laboratory exercises enables students to comprehend the dynamic aspects of the development of organisms. [26L, 39P]

Prerequisite: BIO202H

Corequisite: BIO315H

BIO353H Plant Developmental Biology

Developmental systems drawn mainly from plant life forms and microbes are studied. Tissue and cell culture techniques are emphasized as are applications of biotechnology to agriculture. Topics such as the hormonal control of growth and development, photoperiodicity, circadian rhythms, and environmental stimuli are studied as they influence development. Attempts are made to assemble simple rules which govern more complex patterns of development. [26L, 39P]

Prerequisite: BIO202H/204H/312H, P.I.

BIO354H Vertebrate Form and Function

A continuation in greater depth of vertebrate topics begun in BIO151Y. The design and adaptive consequences of vertebrate structure are examined. Mechanisms of locomotion, body support, feeding, transport, gas exchange and sensory perception are compared at the organ level. Students conduct individual laboratory dissections on selected vertebrates. [26L, 39P]

Prerequisite: BIO101Y/151Y/201Y

BIO355H Taxonomy of Vascular Plants

A survey of the flora of Ontario. The emphasis of the course is on the practical identification of plants both in the herbarium and in the field. [65P]

Prerequisite: BIO305H/P.I.

BIO356H Major Features of Vertebrate Evolution

The evolution of the vertebrates as evidenced by the fossil record. Special emphasis will be placed upon the origin and adaptive radiation of major groups including amphibians and reptiles. Practical sessions will include the study of fossils, and techniques of collection and preparation. Six laboratory sessions will be held at the Royal Ontario Museum. [26L, 39P]

Prerequisite: BIO101Y/151Y/201Y

BIO360H Biometrics I

An introduction to the basic principles and procedures of biological statistics. Topics will include probability, sampling theory, descriptive statistics, estimation, comparison of samples and analysis of frequencies. Collection and analysis of biological data will be done in the laboratory. Students are advised to combine this course with BIO361H for a complete introduction to Biometrics. [26L, 39T]

Exclusion: Any 200 level course in Statistics

Prerequisite: Written permission of instructor required for Year II students.

BIO361H Biometrics II

A sequel to BIO360H in which additional topics in biological statistics are discussed. Regression, correlation, experimental design, and a variety of analyses of variance are included. Collection and analyses of biological data will be done in the laboratory. [26L, 18P, 7T]

Exclusion: Any full course equivalent in statistics at the 200 level

Prerequisite: BIO360H

BIO370Y Microbiology

In depth discussion of microbial structure and ultrastructure; physiology and nutrition; growth and cultivation; nature of viruses (bacteriophage and a limited survey of animal viruses and their properties); microbial genetics; immunology; the role of micro-organisms in medicine, industry, agriculture and ecology. [52L, 78P]

Prerequisite: CHM135Y/150Y, BIO202H

Recommended Preparation: BIO206H, CHM240Y, PHY135Y/140Y

BIO372H Introductory Molecular Biology

An introduction to modern molecular biology.

The course will deal with some aspects of eukaryotic, microbial and viral genetics; the structure, function and biosynthesis of nucleic acids and proteins; and regulatory mechanisms in eukaryotes and prokaryotes. Aspects of how molecular techniques have been integrated into other areas of biology will be emphasized. [26L, 6P, 33T]

Exclusion: BIO470Y

Prerequisite: BIO202H, 203H, CHM240Y

Recommended Concurrent Courses:

BIO315H, 370Y, CHM360Y

BIO404H Neuroethology

A study of the interface between traditional physiology and animal behaviour. The following questions are addressed: how nervous systems control an animal's behaviour through regulation change of motor activity; how sensory organs monitor environmental change, especially the behaviour of other animals; how the central nervous system integrates sensory and endogenous information to achieve adaptive motor output. [26L, 13S, 13P]

Prerequisite: BIO304H/318Y and specific permission of instructor.

BIO417Y Animal Ecology

Studies in the ecology of animal populations and communities, with emphasis on the following topics: production and population dynamics, energy flow, competition theory, predator-prey interactions, life history strategies, food-web theory, analyses of multispecies data and ecological modelling. Laboratories will include field sampling of natural populations, principles of computer modelling and group discussion of papers from the literature. [52L, 21P, 32T]

Prerequisite: BIO205H, 360H

BIO420H Advanced Plant Physiology

Lectures, discussions, and student presentations from the current literature will be used to examine selected topics in plant physiology and development including plant hormones, water relations, morphogenesis, or plant photobiology. Responses to environmental stresses will be emphasized. [26L, 13T]

Prerequisite: BIO312H, Permission of Instructor.

Offered in alternate years.

BIO422H Bioacoustics

Sound and vibration signals are important in the lives of many animals. This course reviews acoustic signalling in insects, frogs, fish, birds and other animals and extracts general insights into the adaptive basis of signal structure. Students make a tape-recorded collection of animal sounds from the field. [26L, 15S, 24P]

Prerequisite: BIO318Y

BIO424 Biology of Sensory Systems

A comparative approach to sensory physiology in a wide range of animals. The course's analysis of sensory transduction and neural networks will incorporate anatomical, electrophysiological and biochemical aspects. Special attention will be devoted to recent publications in the field of sensory ecology and the evolution of sensory processes. [26L, 13S]

Prerequisite: BIO304H/specific permission of Instructor.

Offered in alternate years.

BIO433H Arctic Ecology

The Arctic environment (climate, landscape, frost phenomena) is investigated. The characteristics of soils, and plant and animal life are described and studied. Problems associated with increasing human activity in the Arctic are discussed. [26L, 13T]

Prerequisite: BIO205H/P.I.

Offered in alternate years.

BIO441H Genetics of Lower Eukaryotes

A course designed to familiarize the student with classical and current advances in genetics including genome mapping, mitotic analysis, extranuclear inheritance, molecular mechanisms of recombination, genetic regulation of development, and elements of population genetics. Emphasis is placed on "lower" eukaryotes, including fungi, algae and protozoans currently being used as genetic model systems. [26L, 13T]

Exclusion: BIO440Y

Prerequisite: BIO203H, 341H/P.I.

BIO442H Mechanisms of Evolution

The course focuses on basic theory on the process of evolution. Students are required to present a seminar on a topic in evolution. [26L, 39S]

Prerequisite: BIO203H

BIO443H Macroevolution

The course deals with recent developments in evolutionary biology "above the species level". Topics include: the rules and philosophies for determining phylogenies and higher taxonomic groups; historical biogeography; evolutionary rates - does evolution proceed gradually or in "fits and starts"? Is natural selection of species an "emergent" force contributing to phyletic trends that is separate from Darwinian selection on individuals? Are historical mass extinctions real? If so, how does the available data fit with explanatory hypotheses such as meteoric impacts, mass volcanic eruptions etc.? [26L, 26T]

Prerequisites: BIO151Y/201Y, 203H

BIO452H Advanced Topics in Cell and Developmental Biology

This course focuses on the current state of affairs in certain areas of cell and developmental biology. Topics such as intercellular communication, cell-to-cell adhesion, cell fusion, morphogenesis and differentiation will be covered. Lectures and seminars will involve critical discussions of recently published research articles. [39S]

Prerequisite: BIO352H, P.I.

Offered in alternate years.

BIO456H Biosystematics

A consideration of the principles of taxonomy with particular emphasis on vascular plants. Topics to be discussed include the species concept, polyploidy, numerical taxonomy and geographical and ecological variation. Each student will be required to undertake an investigation of the variation found in a selected population of plants. [26T, 39P]

Prerequisites: BIO203H, 305H.

Recommended Preparation: BIO355H/specific permission of the instructor.

Offered in alternate years.

BIO470H Special Topics in Molecular Biology

The theme of this course will vary from year to year and will be announced to biology students in the spring preceding the course. Cutting edge topical material will be selected in the area of molecular genetics and molecular biology. Possible themes are: "Transgenic plants and animals"; "Evolution of biologically important molecules" and "Molecular plant pathology". [26L, 39T]

Exclusion: BIO470Y

Prerequisite: CHM360Y, BIO372H, BIO370Y and P.I.

Recommended Preparation: BIO315H

BIO475H Modern Approaches to Biotechnology

This course is designed to introduce students to the theory and methodology of genetic engineering utilizing both somatic cell fusion approaches and recombinant DNA approaches. Students will isolate, clone and transform genes to bacterial model systems. Aspects of current hybridoma technology, fermentation technology, immobilized enzyme and cell techniques, and protein engineering in relation to current biotechnology will be discussed. [26L, 39P]

Prerequisites: BIO203H, 206H, 315H, 370Y and CHM360Y

Recommended Preparation: PHY135Y/140Y.

BIO481Y Biology Research Project

A research project carried out under the supervision of a staff member. Open to third and fourth year students. In addition to introducing students to doing research in a chosen area of biology, the research project will teach them how to design, carry out and evaluate the results of a research project. Project students will also learn how to communicate their work in a professional manner by writing a proposal, a report, and presenting a seminar on the results of their research project. Students interested in doing a research project must obtain written permission from the faculty member whom they would like to serve as their project supervisor. All students must meet together with the course co-ordinator 3-6 times per year. [TBA]

Exclusion: Any other research project course.
Prerequisite: P.I.

JBG491Y Environmental Research Project

Independent research on an environmental topic carried out under the supervision of a staff member whose written consent is required for registration. This project course is open to third and fourth year students. A written report of the research will be required and a seminar presentation may be required. [TBA]

Prerequisite: P.I.

Exclusion: All other courses in independent research.

L.A.H. Billard, B.Sc., Ph.D.
M. J. Damha, B.Sc., Ph.D.
J.M. Deckers, L.Sc., Dr.Sc.
U.J. Krull, B.Sc., M.Sc., Ph.D.
P.M. Macdonald, B.Sc., M.Sc., Ph.D.
A.J. Poë, B.A. B.Sc., M.A., Ph.D., D.Sc., D.I.C., Sc.D.
J.C. Poë, A.R.C.S., M.Sc., D.I.C.
J.K. Reed, B.A., M.Sc., Ph.D.
E.A. Robinson, B.Sc., Ph.D., D.Sc.
I.W.J. Still, B.Sc., Ph.D.
M.A. Winnik, B.A., Ph.D.

Discipline Representative:

Professor U.J. Krull

Faculty Advisors:

Professor M.J. Damha - 828-3802

(Chemistry Programmes)

Professor J.K. Reed - 828-3806

(Biochemistry Programmes)

Chemistry has a vital role in modern science-based industry and in the improved material well-being and health of our society. It is being applied increasingly to the growth of our understanding of medicine, biology, materials science, geology, and many other branches of science. Chemistry also has a major role to play in solving our worldwide problems of energy conservation, environmental pollution, nuclear waste disposal and, through its important contributions to agriculture, even of famine. Many of our future advances will originate from the kind of interdisciplinary research in which chemists trained to solve problems from the molecular to the bulk level must be involved.

As an academic, university-based discipline chemistry stands in the centre of the sciences and is recognized as a sound basis for the kind of imaginative and disciplined thinking that has application beyond science to many other occupations and endeavours. At Erindale we offer a Chemistry Programme that enables a student to complete a Specialist Degree in Chemistry over a four-year period on the campus. A Major Programme is also available for students enrolled for a three- or four-year degree and who want a significant background in chemistry. The chemistry faculty are also moving strongly towards a distinctive teaching and research specialization in the border regions between chemistry and biology so that there are Specialist Programmes in Biochemistry and in Chemistry and Biochemistry. Our analytical chemistry has a strong focus in this direction as well. Programmes in Chemistry and Geology, and Chemistry (Physical Chemistry) are also offered. Chemistry at Erindale is a dynamic enterprise at both undergraduate and graduate levels and we welcome dynamic and enthusiastic students.

Specialist Programmes: The programmes in Chemistry offered at Erindale provide a very suitable preparation for those who intend to enter the work force in industry, to teach chemistry in high school, or to continue into a graduate programme. They are listed in Section 7 of this Calendar together with the Major and Minor Programmes.

It is very important to plan one's programme in advance and to consult regularly (at least once a year) with a faculty counsellor. (Consult Departmental Secretary, Room 4037/Faculty Advisors for information on counselling). It is particularly desirable to take specific courses in the year of study for which they are designed (e.g., CHM200 courses in Year II); serious timetable clashes are likely to arise if this advice is not followed. While some deviations from the Specialist/Major/Minor Programmes listed are possible, students should consult the Faculty Advisors before departing from the recommended programmes.

CHM135Y General Chemistry

NOTE: All first-year chemistry students must enrol in CHM135Y. Those who qualify may have their registration changed to CHM150Y in the Spring term.

Fall Term: Chemical stoichiometry, behaviour of gases, introduction to atomic and molecular structure, intermolecular forces, kinetics and mechanisms.

Spring Term: Chemical equilibria, descriptive chemistry of the metals, thermochemistry, introduction to organic chemistry.

NOTE: CHM135Y is a sufficient prerequisite for CHM240Y only. For other higher level chemistry courses, a standing of at least 70% should be achieved in CHM135Y. Students without this prerequisite must consult a Faculty Advisor. [78L, 36P, 24T]

Exclusion: CHM150Y

Prerequisite: OAC Chemistry and Calc and A & G

Corequisite: MAT112Y/132Y/138Y

(PHY135Y/140Y also required for various specialist programmes in chemistry; see Section 7)

CHM150Y Basic Concepts of Chemistry

NOTE: All first-year chemistry students must enrol in CHM135Y. Those who qualify may have their registration changed to CHM150Y in the Spring term.

Fall Term: See CHM135Y.

Spring Term: Chemical equilibria, oxidation-reduction processes, introduction to quantum mechanics, thermodynamics. [78L, 36P, 24T]

Exclusion: CHM135Y

Prerequisite: OAC Chemistry and Calc and A & G with a minimum of 65% on tests in the fall term of CHM135Y

Corequisite: MAT112Y/132Y/138Y

(PHY135Y/140Y also required for various specialist programmes in chemistry, see Section 7)

CHM211H Fundamentals of Analytical Chemistry

A rigorous introduction to the theory and practice of classical analytical chemistry. Development and applications of basic statistical concepts in treatment and interpretation of analytical data; direct and indirect precipitations; volumetric methods; acid-base, complexometric, redox and precipitation titrations; introduction to instrumental methods; potentiometry and absorption spectroscopy. [26L, 52P, 13T]
Prerequisite: CHM150Y/135Y (Grade of B)

CHM221H Introductory Physical Chemistry

Equilibrium thermodynamics, internal energy, enthalpy, entropy, free energy, equilibrium (including Nernst equation), chemical potential and elementary solution theory, colligative properties. Phase rule and ideal solutions (Raoult's law); phase diagrams. Kinetics - review of order, molecularity, activation energy, chain mechanisms and multiple step mechanisms. [39L, 39P]

Prerequisite: CHM150Y/135Y (Grade of B);

MAT112Y/132Y/138Y

Recommended Preparation: MAT212H/232H/258Y

These courses are also prerequisites for third year physical chemistry.

CHM231H Introductory Inorganic Chemistry

Brief review of atomic structure; properties of the elements in relation to their position in the periodic table; theories of chemical bonding; structures and properties of ionic and metallic solids; boranes; introduction to the structures, bonding spectra, and biochemical functions of transition metal complexes. The laboratory involves a range of synthetic, analytical, and instrumental techniques. [26L, 52P]

Prerequisite: CHM150Y/135Y (Grade of B)

CHM240Y Introductory Organic Chemistry

The fundamentals of organic chemistry appropriate for students who require a broad background in organic chemistry for their intended field (e.g., biology, pharmacy, or one of the professional faculties). The course will also serve an important role as part of a two or three-year sequence in organic chemistry for students enrolled in the Specialist Programmes in Chemistry, Chemistry and Biochemistry, or Biochemistry. Synthesis and reactivity of the main classes of organic compounds will be examined from the standpoint of modern theories of reaction mechanism and stereochemistry. The laboratory includes basic organic techniques and selected synthetic reactions. [52L, 52P]
Prerequisite: CHM150Y/135Y

CHM311H Instrumental Analytical Chemistry

Introduction to the basic theory and practice underlying important techniques in analytical chemistry, chosen from three major areas of instrumental analysis; spectroscopy, electrochemistry and separation science. Specific topics will include atomic spectroscopy, x-ray fluorescence, neutron activation analysis, voltammetry, high resolution gas and liquid chromatography, mass spectrometry, and a brief introduction to computer applications, including instrument control and Fourier transform methods. A field trip to observe state-of-the-art equipment and methods is planned. [26L, 13T]

Prerequisite: CHM211H

Recommended Preparation: CHM221H

CHM321H Fundamentals of Quantum Mechanics and Spectroscopy

Schrodinger's equation - quantum numbers, eigenvalues and eigenfunctions. Particle in a box; degeneracy and orthogonality. Hydrogen and helium atoms, energy levels, transition probabilities. Rotation and vibration; molecular orbital theory - electronic states. IR and UV spectroscopy. [33L, 6T]

Prerequisite: CHM221H, MAT212H/222H/232H/248Y/258Y

CHM322H Statistical Mechanics and Applications

Statistical mechanics - canonical ensemble, entropy. Applications to ideal gas, crystals, polymers, heat capacity. Theory of the rate constant in kinetics. [39L]

Prerequisite: CHM321H

CHM331H Inorganic Chemistry I

Coordination chemistry, bonding, formation constants. Redox equilibria and relative stabilities of oxidation states. Bonding of small molecules (CO , O_2 , N_2 , C_2H_4 , etc.). Metal-carbon sigma bonds. Large ligands. Reaction mechanisms; reactions of ligands. Biochemically important complexes. Descriptive chemistry and periodic trends. [26L, 13T]

Prerequisite: CHM231H

CHM332H Inorganic Chemistry II

Descriptive chemistry of selected groups of metals. Organometallic chemistry. Chemistry of the non-metals. Acids, bases, non-aqueous solvents. [26L, 13T]

Exclusion: CHM330Y

Prerequisite: CHM331H

CHM341H Organic Reaction Mechanisms

Structural and mechanistic organic chemistry, including stereochemistry and conformational analysis. Reaction mechanisms, including electrophilic and nucleophilic addition and substitution, as well as elimination. Theory of aromaticity; concerted reactions; reactive intermediates in organic chemistry. [39L]

Prerequisite: CHM240Y

Offered in alternate years with CHM345H.

CHM345H Organic Synthesis

(Formerly CHM445H)

Methods used for forming carbon-carbon bonds will be reviewed, including reactions of the various types of nucleophilic carbon; organometallic reagents; cycloaddition reactions. Other topics include functional group interconversions, oxidation and reduction and the use of elements such as boron, silicon and selenium in organic synthesis. [39L]

Prerequisite: CHM240Y

Offered in alternate years with CHM341H.

CHM347H Organic Chemistry of Biologically Important Compounds

The chemistry of selected classes of naturally occurring molecules such as those below, with emphasis on structure, stereochemistry, properties and synthesis. Amino acids, peptides, proteins, carbohydrates, nucleosides, nucleotides, and nucleic acids. [26L, 13T]

Prerequisite: CHM240Y

Strongly Recommended Preparation:

CHM341H/345H

CHM360Y Biological Chemistry

A lecture course in general biochemistry.

Topics include the chemistry of proteins, enzyme reaction kinetics and mechanisms, metabolic processes and mechanisms of cellular regulation, bioenergetics, membrane biochemistry, molecular biology, nucleic acid and protein biosynthesis. CHM360Y is equivalent to BCH321Y(G). [78L]

Prerequisite: CHM240Y

Recommended Preparation: CHM221H and BIO202H

CHM371H Techniques in Biological Chemistry

A laboratory course to complement CHM360Y. Experiments are designed to familiarize students with techniques commonly used to study the chemical and physical properties of biological molecules. Topics covered include a wide range of chromatographic methods, the isolation and characterization of subcellular organelles, enzyme purification and kinetics, isolation and characterization of nucleic acids and lipids, and radioisotope methodology. CHM371H is equivalent to BCH371H(G) (enrolment limited). [104P]

Corequisite: CHM360Y

CHM391H Physical Chemistry and Instrumental Analysis

This laboratory course represents an integration of the study of fundamental physical chemistry, with wide-ranging applications to instrumental methods of analysis, such as separation science, electrochemistry, spectroscopy and computer methods. The course will provide a solid grounding in many of the major topics covered in analytical and physical chemistry, and the optimization of instrumental analytical measurements by the application of physical principles. [104P]

Prerequisite: CHM211H, 221H

Corequisite: CHM311H/321H

CHM393H Chemical Synthesis Laboratory

This laboratory course comprises a series of syntheses of inorganic, organometallic, and organic compounds, supplemented by physical measurements (e.g. spectra, kinetics, etc.) of the products where appropriate.

Approximately 8 weeks each will be spent on two groups of core experiments, one in organic and one in inorganic synthesis. The remaining 8-10 weeks will be occupied by a choice of inorganic, organometallic, and/or organic syntheses. [104P]

Prerequisite: CHM231H, 240Y

Corequisite: CHM311H/321H/331H, CHM341H/345H

CHM414H Advanced Topics in Analytical Chemistry

Review of recent and fundamental developments of instrumentation which are revolutionizing the field of analytical chemistry. Topics will include specialized mass spectrometers and the GC/MS interface; a survey of surface-oriented techniques including electron spectroscopy, attenuated total reflection methods and photoacoustic spectroscopy; Fourier transform theory and methods; microcomputer communication, instrument interfacing and computational methods of chemometrics. [26L]

Prerequisite: CHM311H

Recommended Preparation: CHM321H

CHM452H, 453H Topics in Chemistry

The following topics have been offered previously and the selection to be offered will depend on enrolments. Generally a minimum of 5 students is required before a topic is given. Interested students must consult the Faculty Advisor before the beginning of term for details of courses available.

Non-Aqueous Solution Chemistry, Structural Inorganic Chemistry, Bioinorganic Chemistry, and Mechanisms of Organometallic and Bioinorganic Reactions.

Prerequisite: One or more of CHM221H, 331H, 332H, and 360Y depending upon the topic; consult Faculty Advisor.

CHM461H Topics In Neurochemistry

This course covers specialized areas in contemporary neurochemistry. Topics will include: structure and biochemistry of neurons, neuronal systems and specialized components such as myelin and synapses; chemistry and neuropharmacology of neurotransmitters, neuropeptides, ion channels and receptors; trophic factors and growth hormones in neuronal development; molecular basis of diseases of the nervous system. [26L]

Prerequisite: CHM360Y/BCH321Y(G)

CHM485H Dissertation Based on Literature Research

The dissertation will be based on literature research of a given area. Introductory reading will be necessary early in the course to bring students to a level where they can appreciate the most recent work in their topic. The dissertation will be conducted under the guidance of a chemistry faculty member on a topic other than the student's research topic in CHM489Y. [26S]

Prerequisite: CHM221H, 2-1/2 CHM300-series full-course equivalents

CHM489Y Introduction to Research in Chemistry

An experimental or theoretical research problem in chemistry under the supervision of a member of the chemistry staff. The course will normally be available in either summer or winter session following completion of the student's third year programme and application for enrolment should be made to the Department in the preceding spring. A final report incorporating the aims and results of the research is required as is an oral presentation of the work. [260P]

Prerequisite: CHM221H, 2-1/2 CHM300-series full-course equivalents including two of CHM371H, 391H, and 393H. For students who take this course in the winter session one of these laboratory courses may be taken as a corequisite instead but, for those taking it in the summer both of them *must* have been completed beforehand.

R.L. Beck, B.A., M.A., Ph.D.
T.G. Elliott, B.A., Ph.D.
C.I. Rubincam, B.A., B.A., Ph.D.

Discipline Representative and

Faculty Advisor: Professor C.I. Rubincam
Room 258B, North Building
Telephone: 828-5371

Office hours: Monday 3-4
Wednesday 11-12

Classics is the study of the civilizations of Greece and Rome. These are of interest both in their own right and because their achievements have been the foundation of so many aspects of our own civilization: its art, languages, literatures, philosophy, government. Courses in Classics thus present background material which is indispensable for the understanding of many other studies in the Humanities. Courses are offered at Erindale in three areas. The first of these (CLA) does not require knowledge of Greek or Latin. It includes courses in Greek and Roman history, for which students may receive credit towards the Specialist Programme in History. It also includes courses in Greek and Latin Literature, read in translation, and courses in mythology and religion. The other two areas are Greek (GRK) and Latin (LAT) language and literature. Beginners' courses are offered in both languages. The Departmental Handbook can be obtained from the Classics Secretary, Mrs. Eleanor Murphy (Room 227, North Building; telephone: 828-3724).

For other courses in Classics see also Greek (GRK), Latin (LAT), FAH101Y, 256H, 258H, PHL200Y, 300H.

CLA160Y Introduction to Classical Studies (Formerly CLA130Y)

An introduction to major themes in the development of Greek and Roman civilization and culture through the exploration of thematically related selections from ancient literature, visual presentations, and lectures, co-ordinated with a basic historical text. [78L]
Exclusion: May not be taken at the same time as or after CLA350Y

CLA201H(I) Latin and Greek in Scientific Terminology

The study of technical and scientific terms derived from Latin and Greek: word elements, formation, analysis. The course is designed to give students in any field of specialization a better grasp of the derivation and basic meaning of English words formed from Latin and Greek elements. [39L]

CLA202H(I) The Ancient Novel

The human and social climate in which prose fiction arose; the Greek romances of love and adventure (Heliodorus, Longus, Xenophon), and the more ironical and socially conscious works of the Roman writers, Petronius, *The Satyricon* and Apuleius, *The Golden Ass*; parallels with modern literature. [26S]

CLA204H(I) Introduction to Classical Mythology

(Formerly CLA105H)

A survey of the myths and legends of ancient Greece (and their extension to Rome) with some consideration of their role in ancient and modern literature and art. [39L]

Exclusion: CLA205Y

CLA205Y(I) Greek and Roman Mythology (Formerly CLA261Y)

The divine and heroic myths of the Graeco-Roman world, with special attention to the use of myth and legend in literature and art, religious ideas and practices associated with myth, and comparisons with related mythologies. [78L]

Exclusion: CLA204H

CLA224H(I) Roman Satire

A reading of selected Roman satires, with emphasis on Horace and Juvenal. Verse satire is the most personal form of Roman literature and offers the modern reader a vivid and witty picture of the society of the times. Of further interest is the influence of Horace and Juvenal on the formation of modern English and European satire. [26S]

CLA232H(I) Ancient Astronomy and Astrology

Greek and Roman views of the universe; the origin and development of scientific astronomy, astrology, and star worship. [26S]

CLA234H(I) Ancient Science and Technology

Early technology; the origins and development of science, and its interactions with philosophy; the achievements and limitations of ancient technology, the survival of ancient science in western culture. [26L]

CLA235Y(I) Government in Classical Greece

(Formerly HIS485Y)

A survey of the major developments in the political thought and practice of the Greeks in the archaic and classical periods (c.750-300 B.C.). [52L, 26T]

CLA300Y Greek Tragedy and Comedy

Greek drama from the origins of tragedy in the sixth century to New Comedy, with close study of selected plays of Aeschylus, Sophocles, Euripides, Aristophanes and Menander, and attention to Aristotle's *Poetics*. [52S]

CLA346Y Alexander the Great and the Hellenistic Age

(Formerly CLA241Y)

The achievement of Alexander and its importance for subsequent Mediterranean history. The creation of the Hellenistic states and their historical significance. [52S]

Recommended Preparation: Any CLA or HIS course

COM courses have been renumbered MGT courses.

CLA350Y The Roman Empire

Constitutional, economic, social, military and religious developments in the empire, from Augustus to St. Augustine. [52L, 26T]

Exclusion: CLA160Y if taken in the same year of study

Offered in alternate years.

CLA354Y Caesar and Augustus

Their work and their contribution, as well as the role of their contemporaries: Pompey, Crassus, Cicero, Antony and Brutus. Based primarily on original sources (in translation), such as the writings of Caesar, the correspondence of Cicero, and the political testament of Augustus. [52S]

Exclusion: HIS486Y

Recommended Preparation: Any CLA or HIS course

Offered in alternate years.

CLA355H Constantine the Great and His Age

Power politics and religious experience in a formative period in the development of Western civilization. [26S]

Recommended Preparation: CLA160Y/CLA350Y

CLA361Y Religion in the Roman Empire

A study of the different religious systems and beliefs competing for men's allegiance in the Roman world of the first four centuries A.D. Classical paganism and its cults; emperor worship; the philosophical alternatives to religion; astrology; the mystery religions and Mithraism; the rise of Christianity and the development of its teachings and institutions within the social context of their times; official and popular reactions to Christianity:

conversion, opposition, persecution and the eventual establishment of Christianity as the Empire's sole religion. [52S]

Offered in alternate years.

CLA400Y Independent Studies

Prerequisite: Permission of the Department

CLA401H Independent Studies

Prerequisite: Permission of the Department

A.J. Bonner, B.Sc., M.S., Ph.D.
G.S. Graham, B.Sc., M.Sc., M.A., Ph.D.
A.D. Jepson, B.Sc., Ph.D.
C. Rackoff, B.S. M.Sc., Ph.D.
J. Sills, B.A., B.Ed.
A.J. Stewart, B.A., B.Sc., M.S., Ph.D.

Discipline Representative and

Faculty Advisor : Professor G.S. Graham
Room 4003
828-5341

Office Hours: By appointment

Computer Science is concerned in the broadest sense with the study of computers and of applications of computers. Its development was stimulated by the use of computers in many areas, such as Engineering, Physics, Chemistry, Biology, Statistics, and business. Yet Computer Science involves much more than just developing techniques for these application areas.

Computer Science as a discipline encompasses a wide range of research interests. Examples are: the design and implementation of computer programming languages, the design and organization of complex computer systems, the efficient allocation and use of computer resources under various constraints, and the organization and management of vast quantities of data typical in many business applications. Computer Graphics is the study of the application of computers to the analysis and generation of pictorial information. Theoretical interests in Computer Science include the study of computability - what can and cannot be computed by machines; of complexity - the relative effort required to perform various computations; and of verification - the formal proof of the correctness of programs. Artificial Intelligence research in Computer Science is concerned with using computers to simulate intelligent behaviour, with the development of programs that can process pictorial and linguistic data, prove theorems, solve problems, etc. Numerical Analysis is concerned with the design, testing and analysis of numerical methods for solving computational problems in science and engineering. Course offerings in Computer Science are intended to serve a wide variety of students, ranging from those whose primary interest is in information processing, to those interested in applying computers to other fields. Enrolment is restricted in all CSC programmes (except the Minor). Consult the Calendar Supplement and the Department for details of how to apply. CSC148H and CSC158H are the standard first year courses for students who plan to continue with further courses in Computer Science in later years.

For more information on the Programmes obtain a copy of the Computer Science Undergraduate Student Handbook from Room 4037.

NOTE: No late registration is permitted in any CSC course after the first two weeks of classes. Students may change from higher-level to lower-level introductory courses until the end of the sixth week of term.

CSC104H How Computers are Used

Parts of a computer and their interconnection. Software: operating systems, files, interfaces. Hardware: storage media, memory, data representation, I/O devices. History of computing. Problem solving with computers: algorithms and basic programming concepts. Science and computer science; other areas of computer science such as graphics, artificial intelligence. Common computer applications: spreadsheets, databases, simulations. Implications of computers for society: computers and work, office automation, computer security. (Students will work with various applications software packages, but the aim of the course is to discuss the concepts of computer application in general, not to serve as a tutorial for specific packages.) [26L, 13T]
Exclusion: VIC104H/SMC104H/high-school, college or (current or past) university course in computing or data processing.

CSC108H Computer Programming

Introduction to programming in a high-level language such as Turing. Fundamental constructs: if statements, loops. Operations on strings and numbers. Data and program restructuring using arrays and subprograms. Applications including sorting. Further topics chosen from recursion, record structures, other languages. [26L, 13T]
Exclusion: CSC139H/148H/149H/150H(G)
Prerequisite: Grade 12 Mathematics

CSC148H Introduction to Computing

An introduction to algorithms and problem-solving with computers. Programming in Turing, including an introduction to simple data structures, string manipulation, recursion, linked lists, program correctness, and floating-point calculations. Comparison of several internal sorting algorithms. Brief exposure to machine language programming. (More intensive than CSC108H; intended primarily for students who plan to pursue any of the Programmes sponsored by this department.) [26L, 13T]
Exclusion: CSC139H/149H/150H(G)
Prerequisite: OAC Calculus, Algebra and Geometry.

CSC158H Computer Applications

A continuation of CSC148H or CSC150H. An introduction to the representation and applications of graphs, computer simulation models, computer graphics, artificial intelligence, and numerical methods. The use of data types such as stacks, queues, trees, and heaps. Some exposure to languages such as Fortran, PL/I, and Pascal. [26L, 13T]
Exclusion: CSC118H(G)/160H(G)
Prerequisite: CSC139H/148H/149H/150H(G)

CSC228H File Structures and Data Management

An introduction to the hardware and software aspects of data processing, including the Cobol language. Emphasis will be placed on external file accessing. External storage device characteristics. File accessing and organization. Methods of indexed sequential organization and direct organization. Single and multiple attribute file accessing. External sorting. Buffering, blocking, data encoding. Introduction to data base management. Additional topics include decision tables, project management, documentation standards. [26L, 13T]
Prerequisite: CSC148H

CSC238H Discrete Mathematics for Computer Science

A rigorous treatment of certain aspects of discrete mathematics with applications to computer science. Emphasis will be placed on the basic properties and fundamental algorithms concerning integers (including induction, Euclidean algorithm, modular arithmetic), and on logic (including propositional and predicate calculus and simple formal theories). Application of these ideas will be made to topics such as program correctness, formal program verification, algorithms from graph theory, and elementary set theory. [26L, 13T]
Prerequisite: CSC148H

CSC258H Computer Organization

Computer structures, machine languages, instruction execution, addressing techniques and digital representation of data. Computer system organization, memory storage devices, micro-programming. Block diagram circuit realizations of memory, control and arithmetic functions. There will be three laboratory periods in which students will conduct experiments with digital logic circuits. [26L, 9P, 13T]
Prerequisite: CSC148H

CSC324H Principles of Programming Languages

A wide variety of programming styles and the programming languages that support them. Emphasis on recursion and concurrency, but other programming regimes such as backtracking and coroutines may also be covered. Language features influencing these regimes such as pattern matching, programs as data, and module encapsulation. Examples from a number of contemporary programming languages such as LISP, Concurrent Euclid, C, Prolog, Smalltalk, and Simula. [26L, 13T]
Prerequisite: CSC238H

CSC350H Numerical Algebra and Optimization

Solution techniques for systems of linear equations and least squares problems, including LU- and QR-based methods. Algorithms for optimization problems, including linear programming, and for systems of nonlinear equations. [26L, 13T]
Exclusion: CSC336H(G), ACT323H(G)
Prerequisite: CSC158H/160H(G), MAT228H/248Y, (212H, 232H)/258Y

CSC354H Systems Modelling and Discrete Simulation

Techniques for modelling complex systems. Mathematical descriptions of the system and of the rules governing its operation. Model evaluation, using either computer-based simulation or analytical techniques; methods for generating uniform and non-uniform pseudo-random numbers; gathering statistics and confidence intervals; model validation; experimental design. Elementary analytical techniques: Markov chains in equilibrium; renewal theory; queueing theory and queueing networks; operational analysis. [26L, 13T]
Prerequisites: CSC158H/160H(G), STA242Y/262Y

CSC364H Effective and Efficient Computing

Measuring algorithm performance. Techniques of efficient algorithm design: divide and conquer, greedy method, dynamic programming, graph traversal, change of representation. Introduction to complexity theory: models of computation, P, NP, polynomial time reducibility, NP-completeness. Introduction to theory of computation: Church's thesis, computable and noncomputable functions, recursive and recursively enumerable sets, universality, many-one reducibility. [26L, 13T]
Prerequisite: CSC238H

CSC378H Information Structures

An advanced study of major classes of information structures with an emphasis on the design, analysis, and implementation of non-numerical algorithms, using an abstract data types approach. Review and synthesis of internal and external data organization and accessing, including searching and sorting. Advanced topics on linear lists, graphs, trees, sets, hash tables, and files. Dynamic storage allocation and garbage collection. Relations and relational algebra. An overview of problem-solving techniques. [26L, 13T]
Prerequisite: CSC228H, 238H

CSC492H Computer Science Implementation Project

This half-course involves a significant implementation project in any area of Computer Science. The project may be undertaken individually or in small groups. The project is offered by arrangement with a Computer Science faculty member.
Exclusion: CSC494H(G), 495H(G)
Prerequisite: At least three 300 level CSC half-courses and permission of the Discipline Representative.

CSC493H Computer Science Expository Work

This half-course involves a significant literature search and expository work in any area of Computer Science. This work must be undertaken individually. It is offered by arrangement with a Computer Science faculty member.
Exclusion: CSC494H(G), 495H(G)
Prerequisite: At least three 300 level CSC half-courses and permission of the Discipline Representative.
Recommended Preparation: INE203H/ WRI203H

Faculty Advisor: Professor N. Copeland
Telephone: 828-3756

Drama is an art form as old as mankind. Understanding drama involves the study of plays, theatres, actors, and the many different styles of presentation and performance over the centuries from the classic tragedies of the ancient Greeks to the most modern experimental theatre. As in other art forms, understanding is advanced by *doing* as much as by studying. Courses in the theory and history of drama are therefore complemented by courses in performance.

The specialist programme in Theatre and Drama Studies includes performance courses given at Sheridan College (Oakville Campus) by instructors in its well-established and highly professional Theatre Arts programmes. Graduates of this new programme will qualify for a Sheridan diploma as well as for a University of Toronto degree. They will be well prepared for professional audition opportunities as well as for graduate study or for secondary-school teaching of theatre arts. For details of the Theatre and Drama Studies Programme see section 7 of this Calendar. Please note that *all* performance courses (DRS) are required for this programme and that admission to them is by audition in the preceding April/May. Entry into the academic drama courses at Erindale (DRE) is not similarly restricted: they may be taken by any qualified student independently of the performance courses, and a combination of three of them may be used toward a four-course Minor in Drama Studies (see section 7).

The focus of Drama at Erindale, both curricular and extra-curricular, is the Studio Theatre. The theatre will be used for performances related to the Theatre and Drama Studies Programme, and for performances of the Erindale Drama Club. Courses in drama and drama-related topics are given in many disciplines, and especially by the literature departments. A list of these courses is given with the specifications of the Theatre and Drama Studies Programme (see above, section 7), and students interested in the field are advised to consider taking some of them.

NOTE:

Courses are listed in three groups:

1. DRS courses: these are performance courses limited by audition to those in the Theatre and Drama Studies Programme; although participatory in nature, these courses may also require some written work. Beginning in 1992-93 all DRS courses will be given on the Oakville Campus of Sheridan College.

2. DRE courses: with the exception of DRE400Y, these are theoretical (i.e. non-performance) courses and are open to all qualified students, although priority will be given to those in the Theatre and Drama Studies (Specialist) and Drama Studies (Minor) programmes. DRS and DRE courses will be offered at the 100-level in 1991-92 and subsequently, at the 200-level in 1992-93 and subsequently, at the 300-level in 1993-94 and subsequently, at the 400-level in 1994-95 and subsequently.
3. DRM course: this course is intended for students currently enrolled in the discontinued major and minor programmes in Drama; it should not be taken by those entering the new Theatre and Drama Studies Programme.

Courses taught at Sheridan College

DRS121Y Acting I

This course will introduce the elements of practical Vocal, Physical, and Improvisational training for the novice actor, with an emphasis on releasing the natural impulse. The second term adds beginning work with poetic and dramatic Texts. [156P]

Corequisite: DRE120Y

DRS221Y Acting II

Half of this course will continue and build upon the work begun in first year in Voice and Text, Movement, and Improvisation. The other half will be an Introduction to Scene Study, including character analysis for the actor, with modern realistic material drawn from the Canadian and American repertoire. [156P]

Prerequisite: DRS121Y

Corequisite: At least one of DRE240H/242H/244H/246H

DRS321Y Intermediate Voice and Movement

Vocal and Physical Techniques for the developing actor now become more specialized. Core work continues at an intermediate level but other components may vary with the availability of Guest Instructors. Voice may include some Ensemble Singing and Movement may incorporate Ballet, Jazz, or Period Folk Dance. [104P]

Prerequisite: DRS221Y

Corequisite: DRS325Y

DRS325Y Acting III

There are three components to this course. The first is Intermediate Scene Study, based on material ranging from British Modern to Shakespeare. The second is a mixture of Acting Exercises and sessions on Professional Practice focussing on the rehearsal process. And as the third, each student will be scheduled regularly for a private tutorial to work on material appropriate to his/her own acting problems in a one-on-one situation. [104P]

Prerequisite: DRS221Y

Corequisite: DRS321Y

DRS421Y Senior Voice and Movement

Core work on Voice, Text, and Movement continues at an advanced level, but, again, some components may vary with the availability of Guest Instructors, and sequences on Solo Singing, Combat, Mime, or further Dance forms are possible. [104P]

Prerequisite: DRS321Y,325Y

Corequisite: DRS425Y,DRE400Y

DRS425Y Acting IV

Regular private Tutorials continue, with emphasis on the development of varied audition material appropriate to the individual student. Professional Practice classes include cold reading technique and the realities of acting as a business. And the third and largest component of the course is Advanced Scene Study (Styles), based on material which could range from the Greeks to Commedia dell'Arte, and from Chekhov to Feydeau. [104P]

Prerequisite: DRS321Y,325Y

Corequisite: DRS421Y,DRE400Y

Courses taught at Erindale College

DRE120Y Introduction to Theatre and Drama

What do we mean by "drama", what various forms might it take, and how might one usefully talk about it? This course explores the formal structure and the stylistic range of dramatic texts of the western tradition, and introduces various critical strategies through which they might be more fully understood and appreciated. [52L, 26S]

Exclusion: ENG222Y(G),DRM100Y(G),120Y

DRE240H The Classical Theatre

A history of the theatre from earliest antiquity to the dying away of the traditions of performance in Byzantium, with particular reference to the great drama of the Athenian festivals. [26L, 13S]

Prerequisite: four full-course credits and P.I.

Exclusion: DRM260H(G), CLA260H(G)

Offered in alternate years.

DRE242H Western Theatre of the Middle Ages and Renaissance

A history of European theatre from early Christian liturgical rituals to the middle of the seventeenth century, with particular reference to the theatre of Shakespeare and his contemporaries. [26L, 13S]

Prerequisite: four full-course credits and P.I.

Exclusion: DRM262H(G)
Offered in alternate years.

DRE244H Western Theatre, 1650-1820

A history of the changing conditions of the stage, largely in Europe, between the late baroque and Romantic periods, with particular reference to Italian, French, English, and German drama and traditions of performance. [26L, 13S]

Prerequisite: four full-course credits and P.I.

Exclusion: DRM264H(G)

Offered in alternate years.

DRE246H Western Theatre from 1820 to the Present

A history of the theatre largely in Europe and America since the invention of strong variable lighting revolutionised performance conditions. Reference will be made to a certain amount of dramatic literature from Ibsen onwards. [26L, 13S]

Prerequisite: four full-course credits and P.I.

Exclusion: DRM266H(G)

Offered in alternate years.

DRE340H Studies in Theatrical Design

A seminar on a topic chosen by the instructor, having a particular focus on design: e.g. a history of stage costume in a given period; the work of a particular stage designer; the visual conventions of the perspective stage, etc. [39S]

Prerequisite: DRE240H/242H/244H/246H, P.I.

DRE342H Studies in Performance Styles

A seminar on a topic chosen by the instructor, having a particular focus on performance: e.g. a study of Stanislavski's books on acting, and their influence; an examination of the traditions of *commedia dell'arte*; a study of the work of a given actor or director. [39S]

Prerequisite: DRE240H/242H/244H/246H, P.I.

DRE400Y Senior Studio

An intensive course in text study and the preparation of a role for performance.

Students will be expected to rehearse for at least one public performance during the course of the university year. [104P]

Prerequisite: at least three full credits in DRS.

Corequisite: DRS421Y, DRS425Y

Other courses (see note, above).

DRM390Y Independent Study

An independent project in drama studies, chosen by the student and supervised by a member of the faculty. A written proposal, signed by the supervisor, must be submitted for approval to the Faculty Advisor before registration.

Prerequisite: Two DRM courses; permission of Faculty Advisor

V. Aivazian, B.S., M.A., Ph.D.
G.J. Anderson, B.A., M.Sc., Ph.D. (Chair)
D. Demougin, M.A., Ph.D.
M.G.S. Denny, B.Sc., Ph.D.
S.M. Eddie, B.Sc., Ph.D.
M. Faig, Licenciatura, M.A., Ph.D.
J.E. Floyd, B.Com., M.A., Ph.D.
K. Furlong, B.A., M.A.
G. Hamilton, B.Sc., M.A.
M.J. Hare, B.Com.
A. Hosios, B.Eng. M.Eng., M.A., Ph.D.
J.A. Hynes, A.B.
A. Melino, B.A., Ph.D.
C. Pitchik, B.A., M.Sc., Ph.D.
D. Pokorny, M.A., Ph.D.
S.A. Rea, A.B., Ph.D.
F. Reid, B.A., M.Sc., Ph.D.
U. Segal, B.Sc., M.A., Ph.D.
G. Slasor, B.A.
P. Thurlow, B.A., M.A.
M. Wooders, B.A., Ph.D.

Discipline Representative and

Faculty Advisor: Professor M.J. Hare

Student Counsellor: Mrs. P. Hynek

Economics as a social science, studies the ways in which the resources of a country (capital, labour, land and natural resources) are allocated between industries to efficiently produce the range of goods and services provided in the country each year. Allocative decisions are made according to traditional patterns and customs; by government decree, policies and planning, and finally by the allocative mechanisms inherent in the price system.

At the aggregate level, Economics considers such problems as excessive levels of unemployment and inflation in the Canadian economy, and analyzes policies which can mitigate these burdens. The study of Economics also assesses the fairness of the tax burden, and the degree to which government spending can be justified. At a more micro or disaggregated level, economic analysis considers the determination of economic efficiency in different types of industry (e.g., oligopoly, and pure competition); the impact of anti-trust regulations, and the determination of prices of both outputs and inputs through the forces of supply and demand. Economic assessments of international trade patterns, tariffs and the consequences of foreign direct investment are also integral.

In addition, economic analysis focuses on such issues as pollution, poverty, the rate of economic growth and urbanization, regional disparities and energy analysis, topics which are ubiquitous in today's newspapers.

The course sequence in Economics at

Erindale is intentionally designed to accommodate the interests of students who wish to specialize in this discipline, and concomitantly, those who wish a broader assessment.

Students who concentrate in Economics frequently continue into graduate work in Business or Economics, or proceed into Law, Chartered Accountancy and many other areas of industry and government.

Economic theory now makes considerable use of mathematics in some of its enquiries.

A student who chooses to specialize in Economics must take at least one basic course in Mathematics.

First year preparation: ECO100Y and MAT112Y/MAT132Y/MAT138Y.

Departmental Counselling:

Mrs. P. Hynek

Room 226, Kaneff Centre

Telephone: 828-5404

September - June:

Mondays, Wednesdays and Thursdays

9:00 a.m. - 12:00 noon, 1:30 p.m. - 3:00 p.m.

July, August:

Student counselling for urgent situations

available by appointment. See the Departmental Secretary - 828-5257

NOTE: The enrolment in most Economics courses above the 100 level and, therefore, in all Economics programmes is based on grades in ECO100Y and, in some cases, MAT112Y or MAT132Y. ECO220Y/STA242Y/262Y (but not STA202H and 212H) is required for most ECO300 level courses. Students should consult this Calendar, the Calendar Supplement and the information bulletins (available from the Department Office at Erindale) which set out the course enrolment criteria.

Not all courses are offered each year.

ECO100Y Introduction to Economics

A survey course with emphasis on the basic concepts and techniques of macro and micro economic theory. The concepts introduced will include: national income and its determination; monetary and fiscal techniques; the derivation and use of supply and demand schedules; the theory of the firm; and principles of comparative advantage and foreign exchange fluctuations. [78L, 26T]

NOTE: Academic performance requirements are necessary as a condition for enrolment into ECO200 level courses. (See Economic Enrolment Criteria details at the Departmental Office at Erindale and prerequisite information listed below for ECO200 level courses).

ECO200Y Microeconomic Theory

An intermediate treatment of the basic tools of economic analysis with applications to a wide variety of economic problems in the area of pricing, resource allocation, income distribution, and welfare economics. Intended primarily for students in the Economics Major and Minor programmes. [52L, 26T]

Exclusion: ECO206Y

Prerequisite: ECO100Y with at least 63%

ECO202Y Macroeconomic Theory and Policy

Macroeconomics, monetary economics, economic stabilization, capital markets and international monetary economics. Theories of output, employment and the price level in closed and open monetary economies are described; and the costs and benefits of stabilization policies in the context of these theories are identified. Intended primarily for students in the Economics Major and Minor programmes. [78L]

Exclusion: ECO208Y

Prerequisite: ECO100Y with at least 63%

Corequisite: MAT112Y(60%)/132Y/138Y

ECO206Y Microeconomic Theory

This course deals more rigorously with the material included in ECO200Y and is intended primarily for students in the Economics Specialist programmes and for students in the Commerce and Finance (B.Com.) programme who have the prerequisites. [52L, 26T]

Exclusion: ECO200Y

Prerequisite: ECO100Y with at least 70%, MAT132Y(60%)/138Y(55%)

ECO208Y Macroeconomic Theory

This course deals more rigorously with the material included in ECO202Y and is intended primarily for students in the Economics Specialist programmes and for students in the Commerce and Finance (B. Com.) programme who have the prerequisites. [78L or 52L, 26T]

Exclusion: ECO202Y

Prerequisite: ECO100Y with at least 70%, MAT132Y(60%)/138Y(55%)

ECO220Y Quantitative Methods in Economics

An introduction to the use of statistical analysis, including such topics as elementary probability theory, sampling distributions, tests of hypotheses, estimation; analysis of variance and regression analysis. Emphasis is placed on applications in economics and business problems. [52L, 26T]

Exclusion: ECO227Y/STA202H/212H/ 222Y/ 242Y/262Y/PSY201H/202H/SOC201Y

Prerequisite: ECO100Y with at least 63%, MAT112Y(60%)/132Y/138Y

ECO227Y Quantitative Methods in Economics

This course deals more rigorously with the topics included in ECO220Y and is intended primarily for students in the Economics Specialist programmes, students in the Commerce and Finance (B.Com.) programme who have the prerequisites and for students planning to take ECO327Y. [56L, 26T]

Exclusion: ECO220Y/STA202H/212H/ 222Y/242Y/262Y/PSY201H/202H/SOC201Y

Prerequisite: ECO100Y with at least 70%, MAT132Y(60%)/138Y(55%)

ECO244Y Industrial Relations

The role, structure, and performance of industrial relations within the framework of Canada's socio-economic-political system. Growth and history of the Canadian Labour movement: its philosophy and structure. Management's strategies and tactics in collective bargaining; public policy in the field of industrial relations; strikes in so-called emergency situations: the role of unions and collective bargaining in inflation. [52L]

ECO303Y Modern European Economic History

(Formerly ECO203Y)

The economic development of modern Europe, with emphasis on the industrialization process and agrarian change in major European countries with concentration on the period from 1750 to 1939. [52L]

Exclusion: ECO101Y(G)/201Y(G)/203Y

Prerequisite: ECO100Y with at least 63%

ECO311H Government Policy Toward Business

(A continuation of ECO366H)

Government policies affecting the private sector; possible improvements in current policies. Emphasis on competition and anti-combines policy, the regulated industries, the patent system, externalities and market failure, and the industrial implications of tariff policy. [26L]

Exclusion: ECO310Y(G)

Prerequisite: ECO366H

ECO312H Economics of Public Regulation

The efficiency and equity aspects of the regulation of public utilities. Economic theory, finance, politics, empirical evidence, and administrative law. The recent deregulation movement. [26L]

Prerequisite: ECO200Y/206Y, 220Y/227Y/ STA242Y/262Y

ECO320Y An Economic Analysis of Law

This course will examine the economic basis for the law. The material will include an analysis of liability rules, including the Tort System, no-fault systems, worker's compensation, and consumer protection legislation. The appropriate economic measures of damages in tort cases will be discussed. Property rights will be considered in depth. Other topics include contracts, bankruptcy, crime, and law enforcement. [52L]

Prerequisite: ECO200Y/206Y

Limited Enrolment

ECO321Y Canadian Economic History Since 1500

(Formerly ECO221Y)

Canadian economic growth and development from the sixteenth century to the present. Reference to relevant topics in United States economic history, especially during the colonial period. [52L]

Exclusion: ECO221Y/222Y

Prerequisite: ECO100Y with at least 63%

ECO322Y History of Economic Thought

This course analyzes the development of economic thought in the eighteenth and nineteenth centuries, concentrating on the writings of Adam Smith, David Ricardo, J.S. Mill and Karl Marx. Methodological questions are raised and lead to a general assessment of alternative approaches to interpreting the history of economics. [52L]

Prerequisite: ECO200Y/206Y, 202Y/208Y

ECO323Y Canadian Economic Development Since Confederation

(Formerly ECO222Y)

Canadian economic growth since the mid-nineteenth century; emphasis on the application of economic theory and data to historical issues. [52L]

Exclusion: ECO221Y/222Y

Prerequisite: ECO100Y with at least 63%

ECO324Y Economic Development

Economic development and transformation of the low-income countries of Latin America, Africa and Asia. Theory and policy analysis relating to the following economic issues in these countries: higher rates of economic growth, the role of the government in resource allocation, the industrial-agricultural sector interface, inward versus outward looking trade strategies, and the international debt problem. The following problems will also be addressed: food supply, domestic savings, tax revenue, foreign exchange, foreign direct investment, high rates of inflation, benefit-cost analysis and economic planning. [52L]

Prerequisite: ECO200Y/206Y, 202Y/208Y, 220Y/227Y/STA242Y/262Y

ECO325H Advanced Economic Theory - Macro

To develop the understanding of the economic foundations of macroeconomic theory and to develop analytical skills in constructing and solving macro economic models. [26L]

Prerequisite: ECO208Y/202Y with 70%, 220Y/227Y/STA242Y/262Y

ECO326H Advanced Economic Theory - Micro

Imperfect information is incorporated in micro-economic theory. The impact of imperfect information on the insurance decision and insurance markets is considered in depth. Principal-agent theory is also applied to employment contracts. [26L]

Prerequisite: ECO206Y/200Y with 70%, 220Y/227Y/STA242Y/262Y

ECO327Y Applied Econometrics

The development and application of those statistical techniques that are used in the testing of the implications of economic theory. [52L]

Prerequisite: ECO200Y/206Y, 202Y/208Y, 227Y/220Y with 70%/STA242Y with 70%/262Y

Recommended preparation: MAT222H or 248Y

ECO333Y Urban Economics

This is a course on the application of economic analysis to four major areas of urban activity. The areas are land markets, housing and buildings, transportation and public finance. In each area, we will consider the role of the government and attempt to understand the source of many current urban economic problems. [52L]

Prerequisite: ECO200Y/206Y, 220Y/227Y/STA242Y/262Y

ECO336Y Public Economics

The construction of an economic theory of government to explain the determination of the budget and to provide an economic rationale for government intervention; an analysis of changing patterns of expenditure and revenue of federal and provincial governments; the development of criteria for the evaluation of expenditure programmes and the tax structure; the problems and techniques of fiscal stabilization. [52L]

Exclusion: ECO236Y(G), 345H(G)
Prerequisite: ECO200Y/206Y, 202Y/208Y, 220Y/227Y/STA242Y/262Y

ECO350Y Seminar on Selected Subjects
Offers a seminar in a different subject each year. Students require written permission of the Assistant Chairman in addition to minimum prerequisites published for each seminar. [52L]

Exclusion: ECO351H,352H

ECO351H/352H Seminar on Selected Subjects

Offers a seminar in a different subject each year. Students require written permission of the Assistant Chairman in addition to minimum prerequisites published for each seminar. [26L]

Exclusion: ECO350Y

ECO360Y Industrial Growth and Technological Change

Examines economic growth and technological change for the leading market oriented industrial countries (particularly, the United States, Japan and Canada). Topics include: selected theories of capitalism; the Long Wave Kondratieff cycle; sources of long term economic growth; the economics of technological change and its importance for productivity increases; causation of the economic slowdown since 1973; the economic "miracle" of Japan; the current United States-Japanese economic interface; the costs of economic growth and technological change, and other viewpoints on the importance of economic growth as a desirable goal for industrial economies. [52L]

Prerequisite: ECO200Y/206Y,202Y/208Y, 220Y/227Y/STA242Y/262Y

ECO361Y Labour Economics

Labour market issues are addressed at the microeconomic and macroeconomic levels of analysis, bringing both theory and evidence to bear on policy issues. At the macroeconomic level, topics such as the overall rate of wage change, strike activity, unemployment and wage controls are addressed. At the microeconomic level, issues such as hours of work, worksharing, age and sex discrimination, and the economic impact of unions are included. [52L]

Exclusion: ECO239Y(G)/339Y(G)

Prerequisite: ECO200Y/206Y,202Y/208Y, 220Y/227Y/STA242Y/262Y

ECO363Y Modern Economic Institutions

The economic analysis of modern economies from an institutional perspective. Topics will include the institutional foundations of the contemporary economies of Great Britain, Canada, the United States, and Sweden. Another principal theme is the relationship between plans and markets in the USSR and Eastern Europe. Finally, the interactions between traditions, markets and socialistic practices in East Africa will be examined. [52L]

Prerequisite: ECO200Y/206Y

ECO364H International Trade Theory

An analysis of the nature, effects and policy implications of international trade theory; the theories of comparative costs and reciprocal demands, factor reward equalization, international tariffs and customs unions. [26L]

Exclusion: ECO328Y(G)

Prerequisite: ECO200Y/206Y,202Y/208Y, 220Y/227Y/STA242Y,262Y

ECO365H International Monetary Economics

An analysis of the nature, effects and policy implications of international finance; balance-of-payments, and foreign exchange analysis; liquidity problems and topics related to current problems in international finance. [26L]

Exclusion: ECO328Y(G)

Prerequisite: ECO200Y/206Y,202Y/208Y, 220Y/227Y/STA242Y/262Y

ECO366H Principles of Industrial Organization

The allocative implications of market failure and the operation of oligopolistic and imperfectly competitive markets. Measures of industrial concentration and other dimensions of market structure; models of firm behaviour in different market settings; case studies of particular industries. [26L]

Exclusion: ECO310Y(G)

Prerequisite: ECO200Y/206Y,220Y/227Y/ STA242Y/262Y

ECO367H Welfare Economics

The basic ideas of welfare economics - especially Pareto efficiency and the question of the significance of Pareto efficiency - will be examined. Then a few particular topics (such as the economic implications of property rights; consumer surplus; and compensation tests) will be studied more intensively. [26L]

Prerequisite: ECO200Y/206Y,220Y/227Y/ STA242Y/262Y

ECO369Y Economics of Health

This course considers a series of special economic problems that arise in the provision of health services. The supply of health services is controlled by physicians and provided largely with public funds in Canada. Problems associated with this type of supply system and reform alternatives will form the major focus of the course. [52L]

Prerequisite: ECO200Y/206Y, 202Y/208Y, 220Y/227Y/STA242Y/262Y

ECO372H Game Theory and Economic Strategy

This course will develop the basic concept of non-cooperative games in extensive and normal form. The level of exposition will be comparable to the Games and decisions by Luce and Raiffa. The emphasis will be on developing an intuitive grasp of the concepts and the relationship between these concepts and strategic situations encountered in economics and other contexts. [26L]

Prerequisite: ECO200Y/206Y, 220Y/227Y/STA242Y/262Y

ECO420Y Reading Course, Seminar or Workshop

Primarily for advanced Specialist Students who have exhausted course offerings in a particular subject area. Open only when a faculty member is willing and available to supervise. Students must obtain the written approval of the Assistant Chairman before enrolling. [TBA]

Exclusion: ECO421H, 422H

ECO421H/422H Reading Course, Seminar or Workshop

Primarily for advanced Specialist students who have exhausted course offerings in a particular subject area. Open only when a faculty member is willing and available to supervise. Students must obtain the written approval of the Assistant Chairman before enrolling. [TBA]

Exclusion: ECO420Y

F. Armstrong, B.A., M.A., Ph.D.
J.H. Astington, B.A., M.A., Ph.D.
B. Corman, A.B., A.M., Ph.D.
V.A. DeLuca, B.A., M.A., Ph.D.
J. Dutka, B.A., M.A., A.R.C.T., Ph.D.
M. Garson, B.A., M.A., Ph.D.
D. Hill, A.B., M.A., Ph.D.
M.J. Levene, B.A., M.A., Ph.D.
C. Lock, B.A., D.Phil.
R.R. McLeod, A.B., M.A., Ph.D.
L. Munk, B.A., M.A., Ph.D.
T. Ross, B.A., M.A., Ph.D.
R. Sullivan, B.A., M.A., Ph.D.
L. Thomson, B.A., M.A., Ph.D.

*Discipline Representative and
Faculty Advisor:* Professor D. Hill
828-3738

The Department of English offers a wide range of courses. Whether an individual course provides a knowledge of one author or one genre or an entire period, its aim is to deepen the student's awareness and appreciation of a distinguished literary tradition.

Courses are arranged in four series. This gradation denotes the level of work expected in the classroom. Thus, courses in the 100 series are introductory; the 200 series provides courses at an intermediate level; and more advanced courses appear in the 300 and 400 series. (Students from outside the Faculty wishing to take English courses should consult the Associate Chairman of the Department.)

The Specialist Programme outlined in Section 7 provides the student with the opportunity to become acquainted with a range of authors, periods, and critical approaches. Students contemplating graduate degrees should consult their instructors about graduate school requirements, including the customary language requirements. Similarly, students considering a teaching career in Ontario should consult the Faculty of Education about the requirements for Senior certification. The student who desires information beyond what is set forth in this Calendar may obtain a brochure from the English office (Room 227, North Building) or from the Department of English on the St. George Campus (7 King's College Circle). This describes the content of courses in full detail and supplies lists of texts suggested by the individual instructors. Counselling is available from the Faculty Advisor as well as from other members of the English faculty.

NOTE: The 100-series courses are designed to increase students' skills in close reading and effective writing. They are open to all students who have standing in fewer than nine full courses and to other students who have standing in no more than one full course in English. ENG110Y, ENG120Y, ENG130Y are equivalent to one another and any one of them can be used in fulfillment of a Specialist, Major, or Minor Program; they will also serve to introduce students to issues in interpretation. Students with fewer than four full credits may enrol in ENG201Y and ENG202Y provided they enrol in one of ENG110Y, ENG120Y, ENG130Y as a corequisite. ENG100H may not be used to meet the requirements of any English program.

ENG100H Effective Writing (Formerly ENG103Y)

A course designed to develop competence in writing expository and persuasive prose for academic and other purposes. It aims to teach the principles of clear, precise, and well-reasoned prose and their application in writing essays; the process of composition (drafting, revising, final editing); the conventions of different university disciplines and of different prose forms. Students are required to pass a written test at the beginning of the term before their enrolment in the course can be confirmed. [39L]

Exclusion: INE203H/205H/WRI203H/205H

ENG110Y Narrative

A study of fiction-making in its broadest sense. Material includes "short short" stories such as folk tales, parables, jokes; oral stories such as TV ads, children's stories, comic routines; extra-literary narrative, including an example of life-writing, Davis's Return of Martin Guerre and Freud's "Dora"; poetry, including Chaucer's "Nun's Priest's Tale," Pope's "Rape of the Lock," Coleridge's "Ancient Mariner"; short stories; 3-4 novels, including Fielding's Tom Jones and James's Turn of the Screw (Norton Crit. ed.); and two films: Citizen Kane and Tom Jones. [78L]

ENG120Y Forms of Literature

A study of literature from the point of view of genre. Texts: three or four plays, including Webster, The Duchess of Malfi and Beckett, Waiting for Godot; three or four works of fiction, including Fielding, Joseph Andrews and Eliot, The Mill on the Floss; selections from an anthology of poetry, including examples of narrative, lyric, and satiric poems; ten to twelve essays, including critical essays about the literary works on the course. Attention will be given to the assumptions and problems of genre classification. [78L]

ENG130Y Shakespeare and After

A close study of representative plays by Shakespeare and of selected later works, aimed at introducing students to the idea of literary tradition as a continuing, active process of rediscovering, revaluing, and reinterpreting past works. The texts studied will include Shakespeare's Romeo and Juliet, King Lear, The Tempest, and one or two of the following: The Taming of the Shrew, Antony and Cleopatra, Richard III, Hamlet, and Macbeth. Eight to ten additional works of fiction, drama, and poetry. [78L]

NOTE: 200-series courses are open to students who have obtained standing in one full 100-series ENG course, or in at least four full courses in the Faculty. Students without this prerequisite may enrol in ENG201Y or ENG202Y if they are concurrently enrolled in any of ENG110Y, ENG120Y, ENG130Y. Students in a Specialist, Major, or Minor programme in English are required to take either ENG201Y or ENG202Y.

ENG201Y Reading Poetry (Formerly ENG227Y)

An introduction to poetry, to its traditional forms, themes, techniques, and uses of language; its historical and geographical range; and its twentieth-century diversity. [78L]

Corequisite: For students with fewer than four full credits, one of ENG110Y/120Y/130Y

ENG202Y Major British Writers

An historical and critical introduction to the study of British literature through a chronological consideration of the following: Chaucer, The Canterbury Tales, "General Prologue" and one Tale; The Second Shepherds' Play; Spenser, The Faerie Queene, selections from Book I; Shakespeare, Henry IV, Part 1, or Antony and Cleopatra, and selected Sonnets; Donne, selected poems; Milton, "Lycidas," Paradise Lost (selected Books); Bunyan, Pilgrim's Progress (selections from Part 1); Dryden, Absalom and Achitophel; Congreve, The Way of the World; Swift, Gulliver's Travels; Pope, The Rape of the Lock, An Epistle to Dr. Arbuthnot; Fielding, Joseph Andrews, or Austen, Emma; Wordsworth, selections from The Prelude and other poems; Keats, "The Eve of St. Agnes" and selected Odes; Browning, selected poems; Dickens, Great Expectations. A text by one additional author may be assigned at the instructor's discretion. [78L]

Corequisite: For students with fewer than four full credits, one of ENG110Y/120Y/130Y

ENG213H The Short Story

An introduction to fiction through short stories of various kinds, written mainly in the 19th and 20th centuries by such authors as Hawthorne, Poe, James, Conrad, Kipling, Joyce, Lawrence, Mansfield, Faulkner, Hemingway, Singer, Gallant. [39L]

ENG214H The Short Story Collection

A study of interrelated short story collections written and put together by such authors as Kipling, Joyce, Lawrence, Hemingway, Mansfield, Salinger, Roth, Laurence, Faulkner, O'Connor, and Gallant. [39L]
Offered in alternate years.

ENG215H The Canadian Short Story

A study of Canadian short fiction in English since its beginnings. A wide variety of regions, periods, styles, and writers will be considered. Works by authors such as Callaghan, Ross, Laurence, Gallant, Munro, Buckler, Hood, Hodgins, and Atwood will be included. [39L]
Offered in alternate years.

ENG216Y Modern Canadian Fiction

A survey of the historical development and contemporary state of Canadian fiction in English. At least fourteen works will be studied, including at least one by six of the following principal authors: Duncan, Leacock, Grove, Callaghan, MacLennan, Buckler, Lowry, Davies, Laurence, Richler, Munro, Atwood. A selection of short stories may be included. [78L]

ENG220Y Shakespeare

Special study of not more than twelve plays by Shakespeare, including at least eight of the following: *Romeo and Juliet*; *A Midsummer Night's Dream*; *Richard II*; *Henry IV*, parts I and II; *Henry V*; *Twelfth Night*; *Measure for Measure*; *Hamlet*; *King Lear*; *Antony and Cleopatra*; *The Tempest*. [78L]

ENG223H Canadian Drama

Canadian plays, with emphasis on major playwrights and on developments since 1940, but with attention also to the history of the theatre in Canada. [39L]

ENG231Y Literature and Society

The relation between literary technique and social purpose in texts selected from different historical periods. Works of different genres are included. [78L]
Offered in alternate years.

ENG232Y Introduction to Biography

Forms of biographical literature selected from different historical periods. Includes biographies, autobiographies, letters, essays, memoirs. [78L]
Offered in alternate years.

ENG233Y Major Women Writers

A study of at least five and not more than eight major women writers. The course will include works of poetry and fiction; drama and non-fiction may also be represented. [78L]

ENG234H Children's Literature

An historical and critical study of poetry, fiction and drama written for or appropriated by children. Works by Bunyan, Defoe, Stevenson, Carroll, Twain, Milne, Tolkien, Norton, Andersen, and at least three other authors. [39L]

ENG236H Detective Fiction

At least twelve works by such authors as Poe, Dickens, Collins, Doyle, Chesterton, Christie, Sayers, VanDine, Hammett, Chandler, Faulkner, P.D. James, Rendell. [39L]
Offered in alternate years.

ENG237H Science Fiction and Fantasy

At least twelve works by such authors as M. Shelley, Poe, Verne, Wells, Stapledon, Huxley, Orwell, Clarke, C.S. Lewis, G. Macdonald, Wyndham, Stoker, Le Guin, Hudson, Tolkien, Read. [39L]
Offered in alternate years.

ENG250Y American Literature

An introductory survey of major works in American literature through the study of approximately twelve representative writers. Works to be studied include: Hawthorne, *The Scarlet Letter*; Melville, *Moby-Dick*; Thoreau, *Walden* or Emerson, selected writings; Twain, *Adventures of Huckleberry Finn*; selected poems by Whitman, novels by James and Faulkner; selected poems by one of Eliot, Frost, Stevens. [78L]

ENG252Y Canadian Literature in English

An introductory survey of Canadian poetry, prose, and drama, consisting of the work of at least twelve writers. At least one third of the material studied will date from before 1950, but attention will also be given to very recent work. The course will include works by at least eight of the following: Moodie, Lampman, Leacock, Pratt, Klein, Ross, Birney, Davies, Laurence, Reaney, Munro, Atwood. [78L]

ENG253Y World Literatures in English

A study of approximately twelve writers from diverse English-speaking cultures, for example, those of Africa, Australia, India, New Zealand, and the West Indies. Authors include at least six of the following: Achebe, Coetzee, Gordimer, Ngugi, p'bitek, Soyinka; Keneally, Stead, Stow, White; Narayan, Rao, Rushdie; Frame; Bennett, Braithwaite, Harris, Naipaul, Walcott. [78L]
Offered in alternate years.

NOTE: 300-series courses are open to students who have obtained standing in at least four full courses in the Faculty, at least one of which must be an ENG course. Students should note the special prerequisites for ENG369Y, ENG390Y, and ENG391Y, and they should consult the Department's brochures for instructions about applying for these courses.

ENG300Y Chaucer

The Canterbury Tales; *Troilus and Criseyde*; selections from Chaucer's other works. [78L]

ENG302Y Poetry and Prose, 1500-1600

Poetry: Wyatt and Surrey, Sidney, Marlowe, Shakespeare, Spenser (including *The Faerie Queene*, at least two Books, and the *Mutabilitie Cantos*), and Donne. Other poets may be added. Prose: More, *Utopia*; and Sidney, *Apology for Poetry*. Selections from at least two of: Elyot; Ascham; Hakluyt; Hooker; Lyly; Sidney, *Arcadia*; Nashe and Deloney. Supplementary readings from such authors as Erasmus, Castiglione, Machiavelli, and Ariosto may be prescribed. [78L]

ENG304Y Poetry and Prose, 1600-1660

Poetry of Donne, Jonson, and their successors; Milton. Prose from writers of the period, e.g., Bacon, Browne, Burton, Milton, and Traherne. [78L]
Offered in alternate years.

ENG306Y Poetry and Prose 1660-1800

Special study of Dryden, Pope, Swift, and Johnson, supplemented with works by at least six of the following: Addison, Boswell, Burke, Burns, Butler, Collins, Cowper, Defoe, Finch, Gibbon, Goldsmith, Gray, Halifax, Pepys, Prior, Rochester, Smart, Steele, Thomson, Walpole, Wollstonecraft, Young. [78L]
Offered in alternate years.

ENG308Y Romantic Poetry and Prose

Poetry and critical prose of Blake, Wordsworth, Coleridge, Byron, Shelley, Keats; may include brief selections from other writers such as Crabbe, Scott, Landor, Clare. [78L]

ENG309Y Victorian Poetry

Special study of Tennyson, Browning, and Arnold; selections from Fitzgerald, Clough, C. Rossetti, D.G. Rossetti, Morris, Swinburne, Hopkins, Meredith, Hardy, Housman, or others. Selections from the critical writings of the period. [78L]
Offered in alternate years.

ENG322Y Fiction Before 1832

At least twelve works, including one or more by each of Richardson, Fielding, Sterne, Austen, and Scott. Three of the works will be: Richardson, *Pamela* or *Clarissa*; Fielding, *Joseph Andrews* or *Tom Jones*; Sterne, *Tristram Shandy*. [78L]

ENG324Y Fiction, 1832-1900

At least twelve works, including one or more by each of Dickens, Thackeray, Trollope, Emily or Charlotte Bronte, George Eliot, and Hardy. [78L]

ENG328Y Fiction, 1900-1960

At least twelve works, including one or more by each of James, Conrad, Joyce, Lawrence, and Faulkner. [78L]

ENG329H British Fiction Since 1960

(Formerly ENG217H)

At least six works by at least four contemporary British novelists, such as Beckett, Burgess, Fowles, Golding, Lessing, Spark, Thomas. [39L]

ENG332Y English Drama to 1642

The miracle play, the morality play, the Tudor interlude, early Tudor and Elizabethan tragedy, comedy and romance; two or more plays by Marlowe; Shakespeare, four and not more than seven of the following: *Love's Labour's Lost*, *Richard III*, *Much Ado About Nothing*, *As You Like It*, *Troilus and Cressida*, *Othello*, *Macbeth*, *King Lear*, *Coriolanus*, *The Winter's Tale*; two plays by Jonson; works by at least six other Jacobean dramatists. [78L]

ENG338Y Modern Drama

A minimum of twenty representative modern plays; one or more by at least five of Beckett, Churchill, Ibsen, O'Casey, O'Neill, Pinter, Shaw, Stoppard, Strindberg, Synge, Williams, Yeats. [78L]
Offered in alternate years.

ENG339H Drama in English Since 1960

(Formerly ENG224H)

At least ten plays by at least six contemporary British and American dramatists, such as Pinter, Albee, Stoppard, Orton, Bond, Storey, Mercer, Griffiths, Shaffer, Shepard, Sackler, Terry. [39L]
Offered in alternate years.

ENG348Y Poetry, 1900-1960

Special study of Hopkins, Yeats, Pound, Eliot, Stevens; selections from other poets. [78L]

ENG349H Poetry in English since 1960

(Formerly ENG229H)

Works by at least six contemporary poets, such as Dickey, Ginsberg, Heaney, Howard, Hughes, Larkin, Lowell, Plath, Warren. [39L]
Offered in alternate years.

ENG358Y American Renaissance

Studies in nineteenth-century American literature focussing on writers of the American Renaissance. At least five authors from the following list will be studied: Emerson, Cooper, Poe, Stowe, Melville, Hawthorne, Thoreau, Fuller, Whitman, Dickinson, James. [78L]
Offered in alternate years.

ENG359Y Realism, Naturalism, and Modernism in American Literature

A study of major currents in American writing between 1890 and 1960, covering at least five authors such as James, Twain, Wharton, Dreiser, Dos Passos, Cather, Williams, Stein, Hemingway, Faulkner, Frost, Welty, Stevens, and Miller. [78L]

ENG361H American Fiction Since 1960 (Formerly ENG218H)

At least six works by at least four contemporary American novelists, such as Bellow, Doctorow, Hawkes, Mailer, Nabokov, Percy, Pynchon, Updike, Vonnegut. [39L]
Offered in alternate years.

ENG366Y Theory and Criticism of Literature

Major issues and movements in the theory of literature and literary criticism, with emphasis on the Twentieth Century. Among the movements to be studied are varieties of formal, psychological, and moral criticism and theory, feminist criticism, structuralism and post-structuralism. Authors to be studied may include such figures as Richards, Leavis, Brooks, Frye, Trilling, Barthes, Bloom, Eagleton, Barbara Johnson. [78L]

ENG367Y History of the English Language

The English language from Old English to the present day. Emphasis on specific texts, showing how linguistic techniques can be used in the study of literature. Texts: Robert D. Stevick, *English and Its History*; A.G. Rigg, *The English Language: A Historical Reader*. [78L]

Offered in alternate years.

ENG369Y Creative Writing

Restricted to students who in the opinion of the Department show special aptitude. [52S]
Prerequisite: Permission of instructor; portfolio must be submitted by June 1.

ENG390Y Individual Studies

A scholarly project chosen by the student and supervised by a member of staff. The form of the project and the manner of its execution will be determined in consultation with the supervisor. All project proposals must be submitted to the Associate Chairman by June 1. Proposal forms are available in Room 227 (North Building). [TBA]
Prerequisite: Three courses in English
Exclusion: ENG490Y

ENG391Y Individual Studies (Creative)

A project in creative writing chosen by the student and supervised by a member of the staff. The form of the project and the manner of its execution will be determined in consultation with the supervisor. All project proposals must be submitted to the Associate Chairman by June 1. Proposal forms are available in Room 227 (North Building). [TBA]
Prerequisite: Three courses in English, including ENG369Y

NOTE: With the exception of ENG490Y, 400-series courses are open to students who have obtained standing in at least nine full courses in the Faculty, including at least three full ENG courses. Students should consult the English Department brochure for details.

ENG405H/406H Studies in a Major Writer, Pre-1800 [26S]

Offered in alternate years.

ENG420H/421H Studies in a Major Writer, Post-1800 (Formerly ENG420H/421H)

[26S]

Offered in alternate years.

ENG443Y Studies in Nineteenth-Century Literature [52S]

ENG456H Studies in Seventeenth-Century Literature [26S]

ENG457H Studies in Eighteenth-Century Literature [26S]

ENG490Y Senior Essay

A scholarly project devised by the student and supervised by a member of the staff. The course is open to students enrolled in the English Specialist programme or in Combined Specialist programmes where it is an option. Proposal forms are available from the Department, and proposals must be submitted by June 1.

Prerequisite: Fourteen full courses with at least four full courses in English; an overall B average in all English courses previously taken.

Exclusion: ENG390Y

Faculty Advisor: Dean D. Trott
Telephone: 828-5218

Under this heading are placed certain courses which, because of their interdisciplinary nature, are not part of the curriculum of a single academic department. Currently, courses in Canadian Studies and Cinema Studies are listed here.

ERI112Y Introduction to Film Studies

(Formerly INE112Y)

An introduction to film history, major aesthetic approaches and the rudiments of film language. [26L, 78S, 26T]

Exclusion: INI112Y, NEW112Y, VIC112Y

ERI390Y Independent Studies

(Formerly INE390Y)

A reading and research project, chosen by the student and supervised by a faculty member, designed to integrate work in an Approved Area of Study. The project will culminate in the writing of a substantial essay. The supervisor will be chosen in consultation with the Programme Co-ordinator. Open only to students enrolled in an Approved Area of Study. [TBA]

Prerequisite: Ten or more full-course equivalents and permission of the Programme Co-ordinator.

ERI401Y Senior Essay

(Formerly INE401Y)

A major independent research project chosen by the student and supervised by a faculty member. All projects must be approved by the Committee on Canadian Studies by the end of classes in the previous year. Application forms are available from the Programme Co-ordinator. [TBA]

Prerequisite: Open only to students with at least fifteen full-course equivalents and the permission of the Programme Co-ordinator.

ERI402Y Selected Topics in Canadian Studies

(Formerly INE402Y)

A seminar course considering varied perspectives on Canadian themes or periods as presented by several disciplines. The topics to be studied will be decided in accordance with the special interests of the students involved. [TBA]

Prerequisite: Permission of the Programme Co-ordinator.

L. Eleen, B.A., M.A., Ph.D.
T. Martone, B.A., M.A., M.A., Ph.D.
B. Welsh, B.A., M.Phil., Ph.D.

**Discipline Representative and
Faculty Advisor:** Professor B. Welsh

Since the study of works of painting, sculpture, architecture and the minor arts provides insight into the nature of the societies in which they were created, it is one of the ways of gaining understanding of human culture in general. The creative process leading to the making of a work of art is a subject worthy of study in its own right. Students taking Fine Art courses learn methods through which art can be understood, as well as learning to make art. This field of study also complements related disciplines, such as history, philosophy and literature. Erindale College offers specialist and major programmes in Art History and Art and Art History. The latter is a joint undertaking with Sheridan College; Art History courses (FAH) and other academic subjects are taught at Erindale College, and Studio Art (FAS) is taught at the Oakville campus of Sheridan College. Both FAH and FAS courses are open to students in other disciplines who wish to pursue these subjects out of personal interest. Specialization in Fine Art may lead to curatorial work in galleries, museums, corporations or teaching at the high school or university levels; careers in illustration and design, independent artistic activities or simply to the greater enjoyment of art. A joint specialization in Fine Art and Urban studies is also available. Interested students should consult the Faculty Advisors in both of these Disciplines. Students registering in their first year in Fine Art and Art and Art History, are advised to meet the Discipline Representative and Studio Advisor during the registration period for guidance. In order to be eligible for enrolment in a FAS course, students must apply and register in person at Sheridan College, Oakville Campus. Enrolment is limited in all studio courses; balloting is mandatory and should be completed on forms available from the Fine Art Office, Erindale or Registrar's Office, Sheridan prior to August 19, to guarantee consideration.

Counselling is available by appointment from:

Discipline Representative Erindale -
B. Welsh (828-3750)
Undergraduate Secretary (FAH)
St. George Campus -
Margaret Miller (978-5002)
Studio advisor - (FAS) Sheridan
College, Oakville Campus,
Annie Smith (845-9430)

FAH101Y Greek and Roman Art

The art of Greece and Rome. The importance of architecture and the arts as characteristic expressions of their age. Detailed study of the outstanding monuments. [52L, 26T]

FAH102Y Medieval Art and Architecture

A selective survey of the art of the Middle Ages. The study of Early Christian, Byzantine, and Early and Late Medieval art and architecture will be combined with a more general introduction to the language of visual expression and its interpretation. [52L, 26T]

FAH200Y European Art from 1400 to 1750

Major forms of expression in the visual arts—architecture, painting and sculpture—with special emphasis on visual analysis. Political, religious and general cultural movements. [52L, 26T]

Recommended Preparation: FAH101Y/102Y

FAH210Y European Painting and Sculpture from Neo-classicism to 1940

A discussion of the major movements in European art. [52L, 26T]
Exclusion: FAH208H, 209H, 283H, 284H
Recommended Preparation: FAH101Y/102Y/200Y

FAH211H Architecture in the Western World Since the Birth of Neo-Classicism

A survey of principal developments in the history of Western architecture since the mid-eighteenth century. [26L]
Recommended Preparation: FAH200Y
Offered on the St. George Campus.

FAH256H Ancient Rome

Development of the city of Rome, from early times to the Late Empire. Buildings and monuments and their place in the life of the ancient city. Readings in topography, art and architecture, and history. [26L]
Offered in alternate years.

FAH258H Pompeii, Herculaneum and Ostia

The public and domestic monuments of three ancient Roman communities, illustrating the daily life of the later Republic and the Empire, outside the capital city itself. [26L]
Offered in alternate years.

FAH265H The Medieval City

A study of the medieval city, seen within its intellectual, social and political context. The course will concentrate on the ground plans and on the forms and uses of public buildings, religious and secular, and of domestic architecture. [26L]
Exclusion: FAH365H
Offered in alternate years.

FAH273H Michelangelo

Consideration of Michelangelo's art in the context of the artistic milieu in which he developed. [26S]

FAH278H Impressionism

The origin and development of this movement in painting, graphics and sculpture in France and in Europe from 1860 to 1886 with special emphasis on Monet, Renoir, Degas, Pissarro, Sisley, Cassat and Morisot. The course will concentrate on the evaluation of the style in relation to the intellectual, social and political context of the period. [26L]

Exclusion: FAH 378H

Offered in alternate years.

FAH304Y Piero della Francesca

An investigation into the sources and development of ideal space and forms in the paintings and writings of Piero della Francesca and his followers in Tuscany and Rome in the late 15th and early 16th centuries. [52S]
Prerequisite: FAH200Y
Recommended Preparation: A reading knowledge of Italian or French.
Offered in alternate years.

FAH312H Painting and Sculpture in the United States

These arts in America since the late 17th century: their relationship to European traditions, the growth of distinctive national styles, and international interaction. [26S]
Exclusion: FAH310Y
Prerequisite: FAH200Y/210Y/287H and P.I.
Offered in alternate years.

FAH313H Painting and Sculpture in Canada

These arts in Canada since the late 17th century: their relationship to European traditions, the growth of distinctive national styles, and international interaction. [26S]
Exclusion: FAH310Y
Prerequisite: FAH200Y/210Y/287H and P.I.
Offered in alternate years.

FAH315H Realism

An examination of this mid-nineteenth century movement in French painting and sculpture with particular emphasis on Courbet, Millet, the Barbizon School, Daumier and Manet. [26S]
Pre or Corequisite: FAH210Y/283H/301Y and P.I.
Recommended Preparation: A reading knowledge of French.
Offered in alternate years.

FAH318H Vincent Van Gogh and 19th Century European Painting

The role of this artist in relation to the Romantic, Realist, Impressionist, Neo-Impressionist and Symbolist movements in European painting. [26S]
Pre or Corequisite: FAH210Y/283H/301Y and P.I.

Recommended Preparation: A reading knowledge of French, German or Dutch. Offered in alternate years.

FAH319H The Expressionist Tradition in Twentieth Century Painting and Sculpture

A continuation of FAH318H, the course concentrates upon such twentieth century masters as Matisse, Kirchner, Kandinsky, Nolde, Arp, Miro and Pollock, Borduas and Riopelle. [26S]

Pre or Corequisite: FAH210Y/283H/301Y and P.I.

Recommended Preparation: A reading knowledge of French or German. Offered in alternate years.

FAH327H Giotto and Duccio

The position of these artists in the sequence of Italian painting, their masterworks in Padua, Florence and Siena seen in relation to the work of their predecessors and followers. [26S]

Exclusion: FAH326Y

Prerequisite: FAH102Y and P.I.

Recommended Preparation: A reading knowledge of Italian or German. Offered in alternate years.

FAH328H Italian Mediaeval Sculpture

Selected topics in the history of Italian mediaeval sculpture, concentrating on the careers of the Emilian masters of the twelfth century and the Pisani in the thirteenth and early fourteenth. [26S]

Exclusion: FAH326Y

Prerequisite: FAH102Y and P.I.

Recommended Preparation: A reading knowledge of Italian or German. Offered in alternate years.

FAH330Y Raphael and Michelangelo As Painters

An investigation of the late pictorial works of Raphael and Michelangelo which completed the decoration of the Sistine Chapel, also of Michelangelo's Peter and Paul cycles in the adjacent Pauline Chapel. A study of High Renaissance Classicism. [52S]

Prerequisite: FAH200Y

Recommended Preparation: A reading knowledge of Italian or German. Offered in alternate years.

FAH331H Fifteenth and Sixteenth Century Italian Sculpture

The development of Renaissance sculpture from Ghiberti to Michelangelo, with an emphasis on the works of Donatello and Michelangelo. The impact of the latter's achievement on the succeeding generation of Mannerist sculptors such as Cellini, Ammanati and Sansovino. [26S]

Prerequisite: FAH200Y

Recommended Preparation: A reading knowledge of Italian or German. Offered in alternate years.

FAH332H Studies in Baroque Painting

Its origins in Northern Italian painting and its subsequent manifestation in the aesthetic of Caravaggio, Anibale Carracci and their followers throughout Europe. Seventeenth century academies of art will also be considered. [36S]

Prerequisite: FAH200Y

Recommended Preparation: A reading knowledge of Italian or German

FAH357Y Fifteenth Century Painting North and South of the Alps

A study of those aspects of Flemish, Florentine, Sienese, Ferrarese, Venetian, French and German schools of painting which form the substructure of the achievements of the most influential masters of the High Renaissance and Baroque periods.

Exclusion: FAH357H, 359H

Prerequisite: FAH200Y or P.I.

Recommended Preparation: FAH101Y/102Y reading knowledge of French/German/Italian

FAH365H The Medieval City

See FAH265H for a description. Students taking the course as a third year subject will attend the lectures, participate in an additional weekly class and write a special paper. [26L, 13T]

Exclusion: FAH265H

Prerequisite: FAH102Y and P.I.

Offered in alternate years.

FAH378H Studies in Impressionism

See FAH278H for a description. Students taking this course as a third-year subject will attend the introductory lectures, participate in an additional weekly seminar and prepare a written research paper to be presented in that seminar, in addition to the general class requirements. [26L, 13S]

Exclusion: FAH278H, 283H

Prerequisite: FAH210Y and P.I.

Offered in alternate years.

FAH379H Studies in Post-Impressionism
An investigation of this movement in French painting and graphics, 1886-1896, with special emphasis on such masters as Van Gogh, Cezanne, Gauguin, Seurat, Toulouse-Lautrec, Redon, Bonnard, Vaillard and Denis. An examination of its theories and practices within the late 19th century artistic and social milieu, in and outside France. [26S]

Exclusion: FAH316H,311H
Prerequisite: FAH210Y and P.I.
Offered in alternate years.

FAH402H International Art Since 1940
Developments in the mainstream of Western painting and sculpture since World War II with special emphasis upon inter-relations among Europe, Canada and the United States. [26S]
Prerequisite: FAH210Y/283H/284H and a 300+ series half course and P.I.
Offered in alternate years.

FAH445H Portraiture from 1400-1750
Portraits of individuals of various social strata. Topics such as the social position of the artist as artisan or practitioner of the Liberal Arts; the aggrandizement of the prince and his dynasty in allegorical portraits; the female portrait as model of virtue, aesthetic and sex object; the male portrait as exemplar of leadership, image of impotency and self-doubt. [26S]
Prerequisite: FAH101Y/102Y/200Y and a 300+ series half course.
Recommended Preparation: SOC101Y; knowledge of social history of the 15th-17th centuries; a reading knowledge of French, German or Italian.
Offered in alternate years.

FAH446H Art and Literature I
Consideration of various types of illustrative art, including illustrated texts and history and genre painting, and, where appropriate, of the relationship of picture to text. The problems chosen for study will be selected from the late antique and medieval periods. [26S]
Exclusion: FAH446Y
Prerequisite: Any three Art History courses including a 300+ series half course and P.I.
Recommended Preparation: FAH102Y
Offered in alternate years.

FAH447H Cubism and Related Movements
An investigation of the birth and development of Cubism, Futurism and Orphism in Europe, America and Canada. [26S]
Prerequisite: FAH210Y and a 300+ series half course and P.I.
Recommended Preparation: A reading knowledge of French or Italian.
Offered in alternate years.

FAH448H Art and Literature II
A continuation of FAH446H, based on problems selected from the Renaissance to Modern periods. [26S]
Exclusion: FAH446Y
Prerequisite: FAH446H and P.I.
Offered in alternate years.

FAH480H/481H Studies in Ancient Art
Students who have demonstrated unusual ability in earlier years will be encouraged to undertake, under the supervision of one or more staff members, special research projects culminating in a major research paper. Not more than two half-courses in Independent Studies may be taken in a single year. Students must have written consent of their faculty supervisor(s) and the Undergraduate Secretary before registering.
Prerequisite: Six FAH courses including a 300+ series half course and P.I.

FAH482H/483H Studies in Medieval Art
The same course description and prerequisites as FAH480H/481H.

FAH484H/485H Studies in Renaissance Art
The same course description and prerequisites as FAH480H/481H.

FAH486H/487H Studies in Baroque Art
The same course description and prerequisites as FAH480H/481H.

FAH488H/489H Studies in Modern Art
The same course description and prerequisites as FAH480H/481H.

(Sheridan College)

J. Armstrong, B.F.A., M.A.
C. Arnoldin, B.F.A., M.F.A.
M. Belisle, B.A., B.Ed., M.F.A.
T. Bolliger, B.A., M.S.A.
D. Crichton, B.A.
J. Crossan, A.O.C.A.
L. Hague, B.F.A.
S. King, B.F.A., M.F.A.
P. Kipps, B.A.
G. Legaré B.F.A., M.F.A.
J. Plow, Dip.Photo Arts
S. Rechico, B.Ed.
R. Sewell, B.A.
H. Simkins, B.A., Dip. Computer Graphics
A. Smith, B.A., M.A., M.F.A., Ph.D.

All FAS courses are offered on the Oakville Campus, Sheridan College. Enrolment is limited in all studio courses. Balloting is mandatory for all FAS200,300 and 400 level courses. Ballot forms are available from the Fine Art Office, Erindale or Visual Arts Office, Sheridan.

FAS143H Drawing I

An introduction to drawing media and techniques combining practice with analysis of draughtsmanship. Includes technical and conceptual development. [78P]

FAS145H Painting I

An exploration of painting's formal elements, subject matter and various media. [78P]
Exclusion: FAS230Y(G)

FAS146H Design I

Fundamental concepts and design processes developed through manipulation and analysis of specific problems. [78P]

FAS147H Photography I

Emphasis on interaction of technique, perception, and communication in making and responding to photographic images. Covers necessary technical aspects of the medium and darkroom procedures. [78P]

FAS232H Printmaking I

An introduction to print media with an emphasis upon relief and intaglio processes requiring experimentation and exploration of contemporary visual concerns. [78P]

FAS234H Printmaking II

A continuation of FAS232H with more formal investigations in relief, intaglio and silkscreen. [78P]

Prerequisite or Corequisite: FAS232H/P.I.

FAS243H Analytical Drawing

An examination of the relationship of process and content in drawing explored through a series of contemporary studio problems viewed against classical drawing traditions and visual conventions. [78P]
Prerequisite: FAS143H/P.I.

FAS245H Painting II

A continuation of FAS145H: to further expertise in major painting media and to further exploration of visual problems within the framework of 20th Century modes. [78P]
Exclusion: FAS230Y(G)
Prerequisite: FAS145H/P.I.

FAS246H Design II

A continuation of FAS146H: Problem solving activities encompassing the fundamental concepts of ratio and proportion are extended to include the historical/cultural analysis of the language of objects. [78P]
Prerequisite: FAS146H/P.I.

FAS247H Photography II

A continuation of FAS147H, this course further develops the use of the camera, light and light-sensitive materials for visual communication and personal expression. Investigations of historical and contemporary uses of the medium will emphasize both technical and aesthetic considerations. [78P]
Prerequisite: FAS147H/P.I.

FAS248H Three-Dimensional Materials

This course explores the application of three-dimensional concepts through direct manipulation of both contemporary and traditional materials. [78S]
Prerequisite: FAS146H/P.I.

FAS251H Fine Art in Wood

Practical experience for understanding wood as it relates to historical and contemporary issues in Fine Art. Assigned projects require research, hands-on practice, and conceptual and creative solutions to problems. [78P]
Prerequisite: FAS146H
Corequisite: FAS248H

FAS252H Fine Art in Clay

Practical experience for understanding clay as it related to historical and contemporary issues in Fine Art. Assigned projects require research, hands-on practice, and conceptual and creative solutions to problems. [78P]
Prerequisite: FAS146H
Corequisite: FAS248H

FAS253H Fine Art in Glass

Practical experience for understanding glass as it relates to historical and contemporary issues in Fine Art. Assigned projects require research, hands-on practice, and conceptual and creative solutions to problems. [78P]

Prerequisite: FAS146H

Corequisite: FAS248H

FAS254H Fine Art in Fiber

Practical experience for understanding fiber as it relates to historical and contemporary issues in Fine Art. Assigned projects require research, hands-on practice, and conceptual and creative solutions to problems. [78P]

Prerequisites: FAS143H, and FAS145H.

FAS330Y Past and Present Techniques of Painting and Drawing

A practical and historical investigation of techniques used in painting and drawing. Critiques and a gallery visit will complement studio work. [156P]

Prerequisite: Any FAS200H series course or any FAH100Y series course/P.I.

FAS332Y Computers and Art

A studio introduction to the applications of computer graphics systems in the visual arts, including basic technical information and discussion of the aesthetic and social issues involved in making "Art" with computers. [156P]

Prerequisite: Any FAS200H series course or any FAH100Y course series, and P.I.

FAS334Y Printmaking III

A continuation of FAS234H with introduction to lithography. Greater focus upon individual development with attention to production, quality, and technical expertise. [156P]

Prerequisite: FAS234H/P.I.

FAS343Y Drawing III

A continuation of FAS243H; further development of graphic skill and concepts. Drawing may be considered an end in itself, a manifestation of an idea or concept, and preparation for work in another media. [156P]

Prerequisite: FAS243H/P.I.

FAS345Y Painting III

A continuation of FAS245H. Greater attention will be given to individual development in the perceptual and conceptual understanding of contemporary art. [156P]

Exclusion: FAS331Y(G)

Prerequisite: FAS245H/P.I.

FAS346Y Design III

Students will experiment with and develop their understanding of the visual language of objects within the context of Modernism and Post Modernism. [156P]

Prerequisite: FAS246H/P.I.

FAS347Y Photography III

An applied course in photographic practice and thinking; traditional and alternate processes will be used to explore the documentary and expressive content of still photography. [156P]

Prerequisite: FAS247H/P.I.

FAS348Y Sculpture

An exploration of contemporary concepts, images and materials in three-dimensional works inspired by natural forms or culturally derived order on space. Students will be required to render three-dimensional works in a variety of materials. [156P]

Prerequisite: FAS248H/P.I.

FAS434Y Individual Investigations in Printmaking

Students must present both written and oral proposals for their term studies. The final submission and evaluation shall consist of a portfolio and/or exhibition of original prints, test experiments, and evidence of research resulting from the students' investigations. [156P]

Prerequisite: FAS334Y and P.I.

FAS445Y Individual Investigations in Painting

Students develop a cohesive personal body of work reflecting an understanding of contemporary art practice. Written statements of intentions and procedures required. [156P]

Prerequisite: FAS345Y and P.I.

FAS447Y Individual Investigations in Photography

Proposals for term work must be presented in both written and oral forms. Emphasis upon student initiative and investigation leading to a final evaluation of the portfolio or original prints, test experiments, and evidence of research. [156P]

Prerequisite: FAS347Y and P.I.

FAS448Y Individual Investigations in Sculpture

Students formulate their own positions through written and oral proposals. From this a body of three-dimensional works reflecting issues associated with contemporary sculptural practice is produced. [156P]

Prerequisite: FAS348Y and P.I.

FAS450Y Advanced Project

An independent project chosen by the student and supervised by a member of the faculty. A written proposal signed by the supervisor must be submitted for approval to the department before registration. No student may take more than one Advanced Project full course equivalent in a single year. [156P]

FAS451H Advanced Project

An independent project chosen by the student and supervised by a member of the faculty. A written proposal signed by the supervisor must be submitted for approval to the department before registration. No student may take more than one Advanced Project full course equivalent in a single year. [78P]

FAS452H Advanced Project

An independent project chosen by the student and supervised by a member of the faculty. A written proposal signed by the supervisor must be submitted for approval to the department before registration. No student may take more than one Advanced Project full course equivalent in a single year. [78P]

C. Cloutier-Wojciechowska, LèsL, DES., M.A., M.Ph., DPS, DUP
 F. Couture, B.A., M.A.
 M-P. Ducretet, L.PhL., Agr.E.M.S., D.PhL.
 C. Elkabas, B.A., M.A., Ph.D.
 P. Leslie, B.A., MèsL
 J. Paterson, B.A., M.A., Ph.D.
 S. Rosienski, B.A., M.A., Ph.D.
 S. Steele, B.A., M.A., Ph.D.
 N.J. Swallow, B.A., M.A., Phil.M.
 D.A. Trott, B.A., M.A., Ph.D.
 H.H. Weinberg, B.A., M.A., Ph.D.

Discipline Representative and

Faculty Advisor: Professor M-P. Ducretet
 Room 246, North Bldg.
 828-5373

For Appointments: 828-3726

The French programme at Erindale offers students a wide range of courses designed to provide the basis for the study of our French heritage.

For students wishing to pursue a programme leading to a high level of competence in French, we offer two series of language courses: FSL121Y, 160H, 182H, 262H, 263H, 362H, for non specialists; FSL182H, 282H, 283H, 382H, 383H, for specialists, maximizing contact with instructors and using modern methods. In addition, students wishing to improve their language competence in the oral skills, have access to a state-of-the-art audio-lingual laboratory and, for the written skills, to a variety of computerized aids. Native speakers of French are not permitted to take for credit FSL160H, 262H, 263H, 283H, 362H, 383H. Such students, however, will be admitted to any FRE course for which FSL182H is a prerequisite.

For those wishing a full programme of French Studies, our introductory and upper-year offerings in linguistics and literature completely satisfy the requirements for specialist or major certification in French Language and Literature and major certification in French Language and Linguistics. These offerings comprise a variety of fields: French as a language system (including Business French); critical approaches to literature (including computerized text analysis); and the study of both French and Québec literatures.

The Department Handbook may be consulted in the Secretary's or Discipline Representative's office, and is available during registration.

Erindale's French graduates have moved on to advanced studies and to careers in business, teaching, translation, transportation and other fields where skills in French are a necessity.

NOTE: Completion of at least 3 courses in the specialist programme and an average of 70% in 2 of the 3 courses, may entitle a student to participate in third year in the Study Elsewhere Programme at Aix-en-Provence or at Laval, Québec.

The series FSL160H/262H/263H/362H, which may be taken as part of a minor programme, is intended to provide instruction for students specializing in other disciplines who wish to develop a practical knowledge of French. The series emphasizes self-help beyond the limits of the individual courses.

NOTE: Students who are not specializing or majoring in French may be admitted to French courses in Literature and Linguistics, with permission of the Department, if they demonstrate the appropriate level of competence in French. Students seeking admission to FSL121Y will be required to provide a high school record as evidence of their level in French. Particularly well-qualified students may, as the result of a language proficiency test, be permitted to enrol in 200 level language courses.

FSL121Y Introductory French II

Spoken and written French, reinforcing oral/aural competence, reading comprehension, and writing skills. [78S, 26P]

Exclusion: FRE121Y/Grade XIII French or higher. Not open to native speakers of French.

Prerequisite: FRE101Y/Grade XI French or placement by the Department

FRE150H Introduction to French Studies: Literature and Culture

The social and cultural history of France as a guide to understanding of its literature.

Movements such as Humanism, Classicism, Romanticism and Existentialism will serve as a background to the study of poetry, drama and prose. [39L]

Exclusion: FRE150Y/151Y

Prerequisite: OAC/FRE121Y

FSL160H Practical French

Improvement of oral and reading skills with emphasis on listening comprehension and pronunciation. Reading materials drawn from a variety of contemporary sources. [39S]

Exclusion: FRE161Y/171Y. Not open to native speakers of French and Immersion students

Prerequisite: FRE121Y/OAC French or placement by the Department

Strongly recommended to intending Specialists and Majors.

FSL182H Language Practice I: Written French

A systematic study of grammar and composition through a variety of exercises designed to improve accuracy and logical structure in written French. [39S]

Exclusion: FRE161Y/171Y. Open to francophones with permission of the Department

Prerequisite: FRE121Y/OAC French or placement by the Department

FRE190Y Aspects of French Cultures

A multimedia buffet that gives students the opportunity to sample the diversity of contributions made by French speaking people to international culture. Lectures, readings and assignments in English. Films will be subtitled in English. [52L]

FRE210Y Introduction to Quebec Literature and Culture

An introduction to various aspects of Québec culture as a guide to the understanding of its literature. [52L]

Exclusion: UN1202H

Prerequisite: FRE150H/150Y/161Y/171Y/
FSL182H

Offered in alternate years.

FRE240Y Introduction to Literary Methodology

Techniques of literary criticism and analysis, based on a detailed study of French works selected from novels, drama and poetry from the 17th century to the present. [52L, 26T]

Prerequisite: FRE150H/150Y/161Y/171Y/
FSL182H

FSL262H Reading French II: Language of the Media

Improvement of reading skills with concentration on the rhetoric of everyday written French in the print media (news reporting, specialized journalism, advertising, etc.). [39S]

Exclusion: FRE261Y/271Y. Not open to native speakers of French

Prerequisite: FSL182H/OAC French (Immersion) or placement by the Department (or FRE150Y/161Y/171Y)

FSL263H Spoken French II: Language of the Media

Improvement of listening and speaking skills with concentration on the rhetoric of everyday French in the electronic media (radio, TV, etc.). [39S]

Exclusion: FRE261Y/271Y. Not open to native speakers of French

Prerequisite: FSL160H/182H/OAC French (Immersion) or placement by the Department (or FRE150Y/161Y/171Y)

FRE272Y The Structure of Modern French: An Introduction

A descriptive study of contemporary French: phonetics and phonology, morphology, syntax and semantics. Theoretical discussion in general linguistics. [52L]

Prerequisites: FRE150H/FSL182H (or FRE150Y/161Y/171Y)

FRE273Y General History of the French Language

The changes by which the Latin spoken in northern Gaul became today's French. Phonetic, morphological, syntactic and semantic evolution; regional, dialectal and social variations; the question of French in Canada; attitudes of writers, grammarians, and scholars, etc; political and social history. [52L]

Prerequisite: FRE150H/FSL182H (or FRE150Y/161Y/171Y)

Offered in alternate years.

FSL282H Language Practice II: Written French

(Formerly part of FRE271Y)

Improvement of writing and reading skills for students specializing in French studies at the university: comprehension exercises, corrective grammar, summarizing, essay-writing. [39S]

Exclusion: FRE261Y/271Y. Open to francophones with permission of the Department

Prerequisite: FSL182H/OAC French (Immersion) or placement by the Department (or FRE150Y/161Y/171Y)

FSL283H Language Practice II: Oral French

(Formerly part of FRE271Y)

Improvement of listening and speaking skills for students specializing in French studies at the university: listening exercises, corrective pronunciation, oral practice, role plays. [26S, 13P]

Exclusion: FRE261Y/271Y. Not open to native speakers of French

Prerequisite: FSL160H/182H/OAC French (Immersion) or placement by the Department (or FRE150Y/161Y/171Y).

FRE312H Quebec Novel II: The Quiet Revolution

The evolution and revolution of contemporary Quebec fiction. [26T]

Exclusion: FRE310Y

Prerequisite: FRE210Y/240Y (or any 200-series FRE "Specialist" course)

Offered in alternate years.

FRE317H Quebec Theatre II: Contemporary Directions

The affirmation of Quebec theatrical forms: search for new dramatic structures. [26T]

Exclusion: FRE311Y

Prerequisite: FRE210Y/240Y (or any 200-series FRE "Specialist" course)

Offered in alternate years.

FRE320Y Literature of Classicism

(Formerly FRE220Y)

Major writers of the seventeenth century, with emphasis upon the aesthetic and moral characteristics which constitute "classicism". [26L, 26T]

Exclusion: FRE220Y

Prerequisite: FRE210Y/240Y (or any 200-series FRE "Specialist" course)

Offered in alternate years.

FRE324Y Literature of Romanticism

(Formerly FRE224Y)

French romantic prose, poetry and drama of the 18th and 19th centuries. Works by such authors as Chateaubriand, Lamartine, Hugo, Musset. Consideration of political, religious and artistic factors influencing romantic expression. Origins of the movement and its later manifestations. [26L, 26T]

Exclusion: FRE224Y

Prerequisite: FRE210Y/240Y (or any 200-series FRE "Specialist" course)

Offered in alternate years.

FRE330H Computer Assisted Literary Analysis

(Formerly FRE225H)

An introduction to the methods and problems of computer-assisted literary analysis using selected French texts. [13L, 13T]

Exclusion: FRE225H

Prerequisite: FRE210Y/240Y (or any 200-series FRE "Specialist" course)

Offered in alternate years.

FRE356H XVIIIth Century Drama

A study of dramatic forms and theories of the 18th century. Theatre as a literary, artistic and social expression. A selection of plays by Marivaux, Beaumarchais and dramatists. [13L, 13T]

Exclusion: FRE356Y

Prerequisite: FRE210Y/240Y (or any 200-series FRE "Specialist" course)

Offered in alternate years.

FRE358H XXth Century Theatre

A critical and theoretical study of XXth century theatre stressing the ways in which various playwrights have experimented with language and representation for the stage. [13L, 13T]

Exclusion: FRE358Y

Prerequisite: FRE210Y/240Y (or any 200-series FRE "Specialist" course)

Offered in alternate years.

FSL362H Reading French III: La Francophonie

Readings and discussions of both literary and journalistic materials that broaden understanding of the range of cultures and societies of la francophonie. [39S]

Exclusion: FRE361Y/380H. Not open to native speakers of French

Prerequisite: FSL262H/282H (or FRE261Y/271Y)

FRE363H Early Prose Fiction II: XVIIIth-Century Novel

The evolution in the 18th century of the novel as a literary form and as a social phenomenon. [13L, 13T]

Exclusion: FRE362Y

Prerequisite: FRE210Y/240Y (or any 200-series FRE "Specialist" course)

Offered in alternate years.

FRE364H XIXth Century Prose Fiction I

This course examines the ways in which such writers as Balzac, Stendhal and Flaubert developed techniques of the novel while exploring the preoccupations of their society. [13L, 13T]

Exclusion: FRE364Y

Prerequisite: FRE210/240Y (or any 200-series FRE "Specialist" course)

Offered in alternate years.

FRE365H XIXth Century Prose Fiction II

This course examines the ways in which such writers as Maupassant, Zola and Huysmans developed techniques of the novel while exploring the preoccupations of their society. [13L, 13T]

Exclusion: FRE364Y

Prerequisite: FRE210Y/240Y (or any 200-series FRE "Specialist" course)

Offered in alternate years.

FSL366H Writing French: Language of Business

(Formerly FRE301H)

A study of vocabulary, grammar and writing techniques involved in business situations (e.g. economics, industrial relations, law, marketing). [39S]

Exclusion: FRE301H

Prerequisite: FSL262H/282H (or FRE261Y/271Y)

Offered in alternate years.

FRE367H XXth Century Prose Fiction I

This course examines the ways in which such writers as Proust, Gide, Malraux, Sartre explored intellectual and psychological conflicts of their society while promoting innovative approaches to the problem of narration. [13L, 13T]

Exclusion: FRE426Y

Prerequisite: FRE210Y/240Y (or any 200-series FRE "Specialist" course)

Offered in alternate years.

FRE368H XXth Century Prose Fiction II

This course examines the ways in which such writers as Camus, Robbe-Grillet, Butor, Sarraute, etc. explored intellectual and psychological conflicts of their society while promoting innovative approaches to the problem of narration. [13L, 13T]

Exclusion: FRE426Y

Prerequisite: FRE210Y/240Y (or any 200-series FRE "Specialist" course)

Offered in alternate years.

FRE375Y Comparative Stylistics

A comparative study of the characteristics of French and English expression and how they pertain to the problems of translation. [26P, 26T]

Exclusion: FTR375Y

Prerequisite: FSL282H (or any 200-series FRE "Specialist" course)

FRE378H French Syntax

A study of the distribution and relationships of the syntagmatic components of contemporary French, the sentential structure including the principle of coordination, subordination and expansion. Theoretical approaches. [13L, 13T]

Prerequisite: FRE272Y

Offered in alternate years.

FRE380H Language Practice III: Written (1992-93)

This course will focus on written French, strengthening and refining the competence that the student has previously acquired. Strongly recommended for students who have completed FRE271Y with less than 67% on the final written examination. [39S]

Exclusion: FRE361Y/371Y. Not open to native speakers of French.

Prerequisite: FRE271Y and permission of the department.

FRE381H Language Practice III: Oral (1992-93)

This course will focus on oral French, strengthening and refining the competence that the student has previously acquired. Strongly recommended for students who have completed FRE271Y with less than 67% on the final oral examination. [39S]

Exclusion: FRE361Y/371Y. Not open to native speakers of French.

Prerequisite: FRE271Y and permission of the department.

FSL382H Language Practice III: Written French (1993)

Consolidation of writing skills already acquired by students specializing in French studies, with emphasis on advanced process writing techniques. [39S]

Exclusion: FRE361Y/380H. Open to francophones with permission of the Department

Prerequisite: FSL282H (or FRE271Y)

FSL383H Language Practice III: Oral French (1993)

Consolidation of oral skills already acquired by students specializing in French studies. [26S, 13P]

Exclusion: FRE361Y/381H. Not open to native speakers of French

Prerequisite: FSL263H/283H (or FRE271Y)

FRE388H French Semantics

Various approaches to the notion of meaning; its functioning at all levels of representation. [13L, 13T]

Exclusion: FRE476Y

Prerequisite: FRE272Y

Offered in alternate years.

FRE400H Women In Literature I: Quebec and Francophone Canada

The evolution of the representation of woman through the literature of French Canada in the second half of the xxth century. A variety of approaches will be used to study works by such writers as G. Roy, A. Maillet, C. Martin, L. Bersianik, R. Ducharme. [13L, 13T]

Exclusion: FRE256H/257H/258H

Prerequisite: FRE210Y/240Y or permission of Department

Offered in alternate years.

FRE401H Women in Literature II: France

A study of women in writing and women who write. The relationship between women, society and literature, stressing the historical and ideological background of literary works: prose, poetry, plays. Works by such writers as Mme de Staël, Colette, S. de Beauvoir. [13L, 13T]

Exclusion: FRE256H/257H/258H

Prerequisite: FRE210Y/240Y or permission of Department

Offered in alternate years.

FRE435H Literary Theory

A study of the theories of comic (irony, humour, parody, satire) and their practical application to literature. Readings from representative authors.

Prerequisite: FRE210Y/240Y or permission of Department

Offered in alternate years.

FRE488H Teaching French As a Second Language

Various contemporary approaches to the teaching and learning of French as a second language, with reference to theoretical issues and socio-historical background; insights on the four skills (reading, writing, listening, speaking). [13L, 13T]

Prerequisite: FRE272Y

Offered in alternate years.

FRE490Y Senior Essay

An independent research paper on either a literary or linguistic topic to be proposed by the student and supervised by an instructor, culminating in a major research paper.

Prerequisite: Permission of the Department

FRE491H Independent Study

A scholarly project supervised by a member of staff on a literary or linguistic topic of common interest, including readings, discussions and papers.

Prerequisite: Permission of the Department

FRE492H Independent Study

A scholarly project supervised by a member of staff on a literary or linguistic topic of common interest, including readings, discussions and papers.

Prerequisite: Permission of the Department

GEOGRAPHY

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Geography seeks to understand the processes which have brought about current use of the environment and the patterns of human settlement. Its traditional focus is on integrating the viewpoints of science, social science and humanities. Geography draws on the earth sciences to understand processes that lead to distinctive variations or similarities from place to place in the physical environment. It also draws on the social sciences and humanities in order to understand the way human beings create and organize distinctive regions, economies and landscapes. By combining their interest in physical and human processes, geographers have a unique role in studying the physical basis of environmental deterioration and in developing policy alternatives for dealing with such deterioration. In general, in a world where the demand for specialists fluctuates widely from year to year, the integrative qualities of a geographical education remain. At Erindale, the geography curriculum has been designed to stress the integrative nature of the discipline. Students proceed through a sequence of courses of increasing difficulty, reinforcing and building on knowledge developed at previous stages. They are expected to demonstrate high levels of verbal, numerical, statistical and graphical skills. They are required to take systematic courses in both physical and human geography and to develop an appreciation of the environmental and human issues facing Canada as we approach the twenty-first century. The geography curriculum also places considerable stress on experiential learning. Field studies are an important component of the programmes at all levels and in all areas of the curriculum. They complement lectures, provide material for workshops, develop skills in geographical methods, encourage student involvement in basic enquiry, and build student-staff cooperation. Field work takes place on the College grounds, in the metropolitan area nearby, and further afield in rural Ontario. The demands of field studies have taken students and staff to Vancouver, Montreal, the tundra of Iceland and the medieval cities of Europe.

Geography offers the following programmes: Geography Specialist (10-12 courses), Major (7 courses), Minor (4 courses) as well as programmes in Environmental Management, Environmental Science and Urban Studies. (For degree regulations see section 5 of this calendar.)

Geography has close links with other disciplines and interdisciplinary programmes, and students in other disciplines should find many courses within Geography that complement their interests and expertise. Students with programmes in fields from literature to geology, from chemistry to history, or from fine art to economics may find in geography new ways of combining and developing their knowledge. A Geography Handbook giving detailed description of programmes is available in Room 3106. Students wishing more information should contact the geography department secretary in Room 3106 or telephone 828-5465. In addition to JBG230Y, the following geography courses are counted as Natural Science courses:

GGR117Y, 217Y, 219H, 276H, 304H,
305H, 307H, 312H, 313H, 316H, 319H, 335H,
355H, 374H, 376H, 377H, 379H, 479H, 491Y.

GGR117Y Introduction to Geography

Geographical analysis of the physical environment. Climate, hydrology, geomorphology and biogeography are examined in terms of their relevance to human activity. The human impact on the natural environment is a major theme. [52L, 26P]
Exclusion: GGR100Y, 131Y

GGR208H The Arctic

A geographic study of the northern circumpolar region with emphasis on past and future changes in the natural environment and human settlement. Examples will be drawn from Alaska, Canada and Russia. [26L]
Exclusion: GGR241Y

GGR217Y Physical Geography

Physical geography is examined in terms of the various systems which make up the earth's environment. This is done descriptively and mathematically in order to prepare students for more advanced studies. Field techniques, analytical methods and relevance to environmental problems are stressed. [52L, 26P]
Prerequisite: GGR117Y

GGR218Y Human Geography

Concepts of social organization and human use of the environment in both rural and urban contexts. Evolution of these geographical systems from the origins of agriculture to modern international trading relationships. [52L, 26P]
Prerequisite: GGR117Y

GGR219H Field Methods

Observation, recording and presentation of field information. The course will include a two-day stay at a field station, for which there will be a small fee. [13L, 39P]

Prerequisite: GGR117Y

Corequisite: GGR217Y/218Y

GGR221H Models of Regional Economic Structure

An introductory survey of models of regional economic structure, growth and change, including: economic-base theory, shift-share models, regional interindustry/input-output models, gravity-type models, staples theory, trade and factor movements, core periphery models and growth pole theory. [26L, 6T]

Exclusion: GGR220Y

JBG230Y(I) Man and Environment

Past and present man-environment relationships are examined; principles of ecology, environmental ethics and esthetics are outlined; crucial alternatives for man are discussed. Problems of current environmental concern - land use, material and energy resources, pollution are considered and illustrated by case studies from different parts of the world. Given by the Departments of Biology and Geography. This course complements GGR233Y. [52L, 26T]

Exclusion: JBG130Y

GGR234H Environmental and Resource Management

Principles of environmental and natural resource policy in the context of ecologically sustainable development. World-view with a Canadian focus. Emphasis on institutional instruments. Cases-in-point include acid rain, air and water quality and forest resources. [26L]

Exclusion: GGR233Y

Prerequisite: GGR117Y/BIO101Y

GGR247H Regions, Provinces and Regionalism in Canada

Contemporary patterns and their development. Problems and attitudes within heartland-hinterland and provincial-federal contexts. [26L]

GGR252H Marketing Geography

The problem of retail location. The spatial structure of consumer demand and retail facilities. Shopping centres and retail chains. Techniques for site selection and trade area evaluation, location strategies, retail planning. [26L, 6T]

GGR255H Perspectives On Current Population Issues

Current discussions on the "population problem" are examined in light of historical writings. Optimum population size and political strength and the tradition of pessimism in population theory. [26L, 13P]

GGR256H Recreation Geography

Introduction to spatial organization and economic impact of recreation. Prediction of demand, problems of over-use, ecological risks, conflicts of interests, planning perspectives, Canada's tourist trade. [26L, 6T]

GGR263H Historical Geography of Ontario

Ontario from its founding to the early 20th century: settlement and ethnic roots, agriculture, transport, industrial growth and urbanization. The cultural landscape and regional literature will receive attention. Field trip. [26L, 13T]

Exclusion: GGR351Y

Prerequisite: at least 4 full course credits

GGR276H Introduction to Data Processing in Geography

Practical instruction in the use of computers from a geographical perspective. Students will be introduced to common micro-computer applications including text processing, spreadsheets, graphics, computer aided cartography. [26L, 13P]

Exclusion: CSC104H, 108H, 158H

Prerequisite: GGR117Y

GGR304H Climate Near the Ground

Elements of microclimatology as they apply to the environment of plants and animals. The role of the surface in controlling energy and water exchange within bioclimatic systems will be emphasized. The movement of contaminants will also be discussed. [26L, 13P]

Prerequisite: GGR217Y, 276H

Offered in alternate years.

GGR305H Biogeography

Analysis of past and present plant and animal distributions, and of the environmental and biological constraints involved. The course emphasizes the impact of continental drift, Quaternary climatic changes and human interference on contemporary patterns. [26L]

GGR307H Soil Management

Application of soil geography to problems of resource use and management. Soil erosion processes and conservation techniques. Soil water management. Drainage and reclamation of wetland soils. Soil pollution issues. Soil capability classification. Selected problems of soils in arid and semi-arid regions, the humid tropics, as well as the Arctic and sub-Arctic. [26L, 13P]

Prerequisite: GGR217Y

Offered in alternate years.

GGR312H Permafrost Environment

Study of physical geography in permafrost areas. Topics include: formation and distribution of permafrost; ground ice; geomorphological processes; hydrology; terrain disturbance; problems of construction and resource development. [26L, 13P]

Prerequisite: GGR217Y

Offered in alternate years.

GGR313H Arctic Hydrology

Hydrological processes in Arctic areas. Topics involve all aspects of the hydrologic cycle including: snowmelt processes, water movement in frozen ground, nival runoff regime, ground ice formation and frost heave. [26L, 13P]

Prerequisite: GGR217Y

Offered in alternate years.

GGR316H Hillslope Geomorphology

Systems approach to hillslope geomorphology studies; processes of erosion and deposition; mass wasting; slope forms of humid and arid regions; process-response models; applied aspects. [26L, 13P]

Prerequisite: GGR217Y

Offered in alternate years.

GGR317Y Urban Environment

Urbanization has profound implications for the environment. The first half of the course focusses on the physical urban environment; in the second half, environmental and natural resource policies are examined in the context of an urban ecosystem such as the greater Toronto area. [52L, 13P]

Prerequisite: GGR217Y, 218Y, 219H

GGR318Y Canada and the World

The geography of Canada's national development and the country's place in the world economy. Staples theory, immigration and settlement, core-periphery inequalities, international trade, military alliances and the geographic relationships with specific countries. [52L, 13P]

Prerequisite: GGR217Y, 218Y, 219H

GGR319H Field Camp

Mission-oriented investigation of physical and socio-economic phenomena out-of-doors. Field observations and samples collected during a week-long field camp are analyzed and the findings are submitted in a major report. Each student must pay the cost of transportation and accommodation. [39P]

Prerequisite: GGR217Y, 218Y, 219H

GGR325H Spatial and Locational Theory

Modern theoretical geography, spatial economics, and regional science. Analysis of spatial form, transport process, land use theory, locational analysis, central place theory, human movement in geographical space. Planning and policy questions. [26L]

Prerequisite: GGR220Y/221H

Offered in alternate years.

GGR333H Geography of Energy in Canada

Regional supply/demand pattern; production and delivery systems; available supplies; end uses and efficiencies; major proposed energy projects. [26L, 13T]

Recommended Preparation: GGR233Y/234H/361Y

Offered in alternate years.

GGR334H Water Resources Management

Canadian problems in water resource management; a selection of topics related to policy will be covered, e.g. forecasting the demand for water, inter-basin and international water transfers, industrial and urban water supply and wastewater management, flood/drought as natural hazards, the Great Lakes, water supply in developing countries. [26L, 13T]

Prerequisite: GGR234H

Offered in alternate years.

GGR335H Environmental Modelling

An application of environmental models to contemporary problems of decision-making. The course will demonstrate the relevance of techniques of data management (statistics, computer systems) to issues facing Canada and the global community. [26L, 13P,]

Prerequisite: Any 8 full course equivalents, including a course in STA

Corequisite: GGR276H

GGR343H The Changing Landscape of China

The changing physical, social and economic landscape of China. Special emphasis on developments in industry, agriculture, urbanization and the environment since 1949. [26L, 6T]

Recommended Preparation: Two courses in Geography

GGR344Y Geography of Russia

A survey of the geography of Russia and its neighbours in the Commonwealth of Independent States. [52L]

GGR346H The Urban Planning Process In Canada

Introduction to planning as a conscious collective activity which can or actually does shape the city. Reflection upon the nature of urban planning, rather than discussion of particular urban development issues is emphasized. Major themes: the legal framework of planning in Ontario, outline of planning history, current issues in planning theory. The course may include one week-long internship in a planning office. [26L, 13T]
Prerequisite: GGR220Y/221H, 261H/
SOC205Y

GGR349H Workshop in Advanced Urban Geography

This course emphasizes research and field work related to housing and the residential environment. It will contain a mixture of lectures, seminar discussions and independent work. Research topics will be selected according to current interests of students and staff. [26L, 13T]
Exclusion: GGR349Y
Prerequisite: GGR357H

GGR353H History of the Canadian Environment

For more than four centuries Canadian territory has been the subject of use and abuse by mankind. This course deals with the exploitation of natural and cultural resources from prehistoric times, with major emphasis on the consequences of technological innovation after 1800 and the growth of the conservation movement. [26L, 13T]
Prerequisite: Any 8 full course equivalents
Offered in alternate years.

GGR355H Environmental Change

Identification of man-induced and natural change in environmental systems with special reference to climatic variation. Specific cases of change, e.g. desertification along margins of deserts, availability and quality of water resources. [26L, 13T]
Recommended Preparation: JBG230Y/
GGR233Y/234H

GGR357H Geography of Housing and Housing Policy

An introduction to housing as both product and process. The analysis of housing markets in a spatial context, emphasizing the transaction mechanism, residential location and housing choice, the role of the state, public housing and the relationships of housing changes to patterns of mobility and neighbourhood change. Case studies of specific policy issues and alternative housing strategies. [26L, 13T]

GGR361H Understanding the Urban Landscape

(Formerly GGR261H)
Deciphering change in the physical form of neighbourhoods, including a substantial amount of field work in the inner city. Review of the evolution of urban form and introduction to the interplay of private and public forces that shape the built-form of Canadian cities. [26L, 13P]
Exclusion: GGR245Y

GGR363H Transportation and the Seas

The relationship of mankind to the oceans, from ancient to modern times: exploration, trade, migration, technology, oceanic resources, ports, coastal land use, and sovereignty. The seas in lore and literature. [26L, 13T]
Exclusion: GGR351Y
Prerequisite: At least 8 full course equivalents.

GGR364H Historical Geography of Ethnic Groups in Canada

The creation and survival of ethnic communities in Canada with particular emphasis on rural settlements. Aspects of ethnic territoriality, the stability of ethnic communities, and the adaptation of immigrants to the Canadian environment. [26L]

GGR365H The Geography of World Trade

The course uses the geographical paradigms of areal differentiation and locational analysis to investigate the dynamics of trade at a global scale. Following a review of these paradigms and an introduction to evolving patterns of world trade the student will select a commodity for intensive study. [26L, 6T]
Exclusion: GGR489H (1989-90)

GGR366H Historical Toronto

Toronto's development compared to other large North American cities. Culture, social life, economy, politics, and planning process and ideology. [26L]

GGR374H Water Quality

An introduction to the physical and chemical characteristics of natural water with emphasis on their importance to industrial and domestic supplies. Topics included are: measurement and analysis of dissolved and suspended constituents, chemical equilibrium in dilute aqueous solutions, and spatial variability of water quality with emphasis on Southern Ontario. [26L, 13P]
Prerequisite: Grade 13 Chemistry/
CHM135Y/150Y, GGR217Y
Offered in alternate years.

GGR376H Groundwater Hydrology

An introduction to the principles of groundwater flow with emphasis on their application to the development of groundwater supplies, construction dewatering, and contaminant migration. The main components of the course are: theory of groundwater flow, well drilling procedures and construction, data collection and evaluation, groundwater chemistry, groundwater assessment procedures, dewatering system design, and simple groundwater models. [26L, 13P]

Prerequisite: Grade 13 Chemistry/

CHM135Y/150Y, GGR217Y

Offered in alternate years.

GGR377H Environmental Monitoring

Techniques of point measurement of environmental parameters are examined with particular emphasis on air and water pollution. Problems of sampling in time and space are subsequently treated with a view to designing pollution indices. Applications to human health, government policy and industrial activity are noted. [26L, 13P]

Prerequisite: JBG230Y/GGR217Y

Offered in alternate years.

GGR379H Advanced Field Methods in Physical Geography

Structured around field work, the course will include at least one major field trip. Students will be responsible for reading selected articles relating to the study areas prior to visiting the field. Projects will involve mapping of physical features (i.e., geologic structures, vegetation, soil, water) on a preliminary basis from aerial photographs in the laboratory and subsequently in the field. The intention is to conduct the major field trip outside Southern Ontario to provide a contrasting environment for the students (who, it is assumed already have some familiarity with the local area). [39P]

Prerequisite: Any 3 courses drawn from one or more of the following: Physical Geography, Geology and Biology

Offered in alternate years.

GGR380H Communicating with Maps

Maps as a form of language, expressing prose and tabular information visually and spatially. The description of patterns of evidence in thematic maps. Map analysis and criticism. Use and misuse in geography and the mass media. [13L, 26P]

Exclusion: GGR280H, 281H

GGR389H Advanced Field Studies In Human Geography

This course involves students in advanced methods of field work in human geography. Emphasis is placed on the integration and interpretation of documentary evidence (historical and archaeological) with the physical evidence in the field, including the interpretation of landscape change. A one week field camp in a North American locale is required. [39P]

Prerequisite: Permission of Instructor

Offered in alternate years.

GGR393H Methods of Environmental Assessment

Methodologies for measuring and predicting the impact of development on the bio-physical and socio-economic environments. Environmental assessment, law and institutions, environmental mediation, monitoring, mitigation, evaluation, risk assessment. The types of impact assessment methods examined vary from year to year (e.g. economic IA, ecological IA). [26L, 6P]

Prerequisite: GGR117Y, 234H

GGR417Y Research Project

Designed to give students experience in the definition and execution of a research study under the guidance of a member of faculty. [13P]

Exclusion: All other courses in independent research

Prerequisite: GGR317Y, 318Y, 319H

GGR479H Advanced Topics in Physical Geography

An advanced seminar dealing with topics in physical geography, to be selected according to staff and student interests. [26P]

Prerequisite: Permission of Instructor

GGR489H Advanced Topics in Human Geography

An advanced seminar dealing with topics in human geography, to be selected according to staff and student interests. [26P]

Prerequisite: Permission of Instructor

GGR491Y B.A./B.Sc. Thesis

A research project, each student working on a topic of his choice under the individual guidance of a member of the staff. Copies of the thesis are to be submitted by March 1, and the student will present it before an examining committee.

Exclusion: All other courses in independent research.

Prerequisite: 4 GGR courses, 15 or more full course credits

JBG491Y Environmental Research Project

Independent research on an environmental topic carried out under the supervision of a staff member whose written consent is required for registration. This project course is open to third and fourth year students. A written report of the research will be required and a seminar presentation may be required.
Exclusion: All other courses in independent research.

GGR493H Advanced Topics in Environmental Management

An exploration of theories, research techniques and policy options relevant to the understanding and solution of environmental issues such as sustainable development, risk management and environmental assessment. [26L]

Prerequisite: 5 courses from the Environmental Management Major

Professors Emeriti

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D.Univ., L.L.D., F.R.S.C., F.R.S.
J.B. Currie, B.A., M.A., Ph.D.

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D.R. Kobluk, B.Sc., M.Sc., Ph.D.
B. Murck, A.B., Ph.D.
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Discipline Representative:

Professor H.C. Halls

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The Geological Sciences deal with the origin, evolution and structure of the Earth and other planets, through the analysis of physical, chemical and biological processes. Modern theories of global dynamics continue to provide new insights into our understanding of the Earth's behaviour and of its relationship to the other planets.

Geoscientists (Geologists, Geophysicists, Geochemists) have always contributed greatly to our knowledge of the history of our planet, including its origins, physical evolution, and the history and evolution of life. The ability to read the rock record is one of the important skills of the geoscientist, and is essential for unravelling the mystery of how our planet came to be.

The geoscientist holds a leading place in the search for materials of economic value such as oil, gas, metals, coal and industrial minerals, and the evaluation of potential hazards in our natural environment. The exploration and development of natural resources constitute one of the largest industries in Canada, and has always been a major employer of geoscientists. Advances in the understanding of earthquakes, volcanoes and other natural hazards have enabled geological scientists to be actively involved in evaluating methods of hazard prediction. A career in the Geological Sciences leads to opportunities for work in many parts of the world, under a range of field conditions. In addition, modern geoscientists use a wide variety of analytical and experimental techniques in order to characterize earth materials (X-ray diffraction, electron microscopy, neutron activation, high temperature and high pressure experimental studies).

Erindale provides a broadly-based preparation for careers in the geological sciences. We offer a spectrum of courses encompassing the fields of geophysics, structural geology, sedimentology, geochemistry, petrology, stratigraphy, and invertebrate paleontology. Four specialist programmes are offered; in Geology, Geology and Physics, Geology and Chemistry, and Geology and Geography; two major programmes in Geology and Geology and Geography. These programmes are outlined in Section 7 of this Calendar; note that most fourth year courses are taken on the St. George campus. Many of our courses will be useful to students specializing in other fields such as Commerce, Environmental Geography, Surveying Science, Biology, Vertebrate Paleontology, Metallurgy, Anthropology, and Civil Engineering.

GSC103H Geology and Public Issues

Issues and events of current national and international concern are examined from a geological perspective. Topics include toxic and nuclear waste disposal, finite energy and mineral resources, and a variety of natural hazards, including landslides, floods, volcanoes, earthquakes, and radon contamination [26L]
Offered in summer session only.

GSC110H Violent Events in Earth History

Earthquakes, volcanic eruptions, tsunamis and landslides are examples of sudden, sometimes catastrophic, events that occur in response to forces that originate deep in the Earth's interior and which, together with the action of water and wind, are continually reshaping the Earth's surface. This course will discuss the methods that are used to monitor, predict and control these potentially hazardous phenomena. Recent theories that asteroidal impacts with Earth have caused periodic mass extinctions of life will also be discussed. [26L, 13T]

GSC120H Planet Earth

We explore the scientific principles and methods used by geologists to discover and study the history, structure and evolution of our planet. Among the topics discussed are the origin of the Earth, exploration of the deep interior of the Earth, the world of minerals and rocks, plate tectonics, and the natural history of the Earth's crust. Practical work focuses on some examples of the methods used to study the Earth, introduces students to minerals and rocks, and teaches how to read topographic and geologic maps. [26L, 13T]
Recommended Preparation: Grade 12 or OAC Physics and Chemistry.

GSC121H The History of Life

The history of life on Earth, beginning with the origins of life, and emphasizing the major events, trends, and innovations. The course concentrates upon the fossil record, especially that of the oceans, and treats topics as diverse as: extinctions, ocean environments, appearance of skeletons, fossilization, adaptations, origins of dinosaurs and fish etc. [26L]

GSC215H Environmental Geology

This course highlights, in a geological context, the physical and chemical processes that shape our environment. Topics include: atmospheric, oceanic and groundwater circulation (ozone hole, El Nino, contaminant migration); erosion (coastal processes, soil loss, desertification); natural hazards (landslides, earthquakes, volcanoes); earth resources (fossil fuel dependency, geothermal energy); waste disposal (liquid, solid, radioactive). [26L, 13T]

Prerequisite: OAC Chemistry; GSC110H/120H/121H

GSC219H Mineralogy

An introduction is given to the structure, properties and origin of minerals. Laboratories consist of hand sample identification of some of the common minerals, and demonstrations and exercises applying principles learned in lectures. Some of the fundamental principles of the behaviour of light in crystalline substances are introduced, allowing elementary observations concerning mineral identification with a petrographic microscope to be made in laboratory exercises. [26L, 39P]
Exclusion: GSC221H
Corequisite: GSC120H

GSC220H Geological Maps

A geological map is a representation of the geological history of an area as told by the mapper. To read that history students learn the significance of rock distributions, learn to recognize and document geological structures such as faults, folds and unconformities, and to construct geological cross-sections [26L, 39P]
Corequisite: GSC120H/GGR117Y

GSC222H Rock Formation

Lectures introduce the major rock forming processes and the principles of rock classification. Laboratory work focuses on the hand sample and microscope description, identification and interpretation of rocks. [26L, 39P]
Exclusion: GSC221H
Prerequisite: GSC219H

GSC230H Chemical Processes In Geology

This course introduces the principles of equilibria and transitions involving solid, liquid and gaseous phases within the Earth. Topics include: fundamental thermodynamic concepts; the distribution, abundance and geochemical behaviour of elements in the Earth; the thermodynamics of solutions; one- two- and multi-component phase diagrams; and an introduction to aqueous geochemistry. Applications in geology will be emphasized. [39L]

Prerequisite: CHM135Y/150Y

GSC237H Geology of the Solar System

We will examine the recent explosion of knowledge concerning the sun, planets and other members of our solar system. The course emphasizes the terrestrial planets - Mars, Earth, Venus, and Mercury - because of our greater knowledge of these through numerous landing, orbiting and flyby missions. The asteroids, comets, and the giant planets and their satellites will be discussed particularly as they pertain to theories of the origin and evolution of the solar system. [26L, 13P]

Prerequisite: One 100 level AST/CHM/GSC/PHY course

GSC270H Fossils and Sedimentary History of North America

The lectures treat the principles of stratigraphy and biostratigraphy, and the history of sedimentation in North America (emphasizing northeastern North America) from the Middle Precambrian to the end of the Paleozoic. The laboratories comprise an introduction to the major groups of invertebrate organisms found as fossils; the emphasis is upon those groups of major biostratigraphic and paleoecological significance. [26L, 39P]

Recommended Preparation: GSC121H

GSC320H Igneous Petrology

The classification, genesis, and significance of igneous rocks are placed within a plate tectonic framework. Laboratory work involves mineral identification and recognition and interpretation of textures in hand specimen and thin section. [26L, 39P]

Prerequisite: GSC221H, 222H, 230H

GSC321H Metamorphism

Metamorphism designates the transformations and chemical reactions between component minerals which rocks undergo when they are submitted to changes in pressure and temperature. Since many rocks exposed at the surface of the Earth do exhibit such transformations, geologists aim to infer their pressure-temperature histories. [26L, 39P]

Prerequisite: GSC221H, 222H, 230H

GSC325H Field Camp I

This course held on the north shore of Lake Huron in early May, covers geological mapping skills, stratigraphic section measurements, and using computers in field geology. Recognition of rock types, fossils and geological structures in the field is used to interpret ancient geological environments. Students must pay the cost of transportation and accommodation. [10 days of field instruction]

Prerequisite: GSC220H, 222H, or equivalent from St. George or Scarborough campuses

GSC332H Structure and Tectonics

The evolution of the Earth's crust is illustrated using current theories of plate tectonics and geodynamics. Topics covered include: mantle convection, plate driving mechanisms, lithospheric deformation, continental collision, rifting, transform tectonics and intraplate deformation. Laboratory work includes exercises in plate kinematics, isostasy, geodynamics, map interpretation and integrative terrane analysis. [26L, 39P]

Prerequisite: GSC220H, 222H

Recommended Preparation: GSC322H

GSC336H Remote Sensing in Geology

Satellite imagery, aerial photography, imaging radar, airborne geophysics and elementary digital image processing are introduced.

Applications include: geological mapping, analysis of mountain belts and earthquake zones, hydrocarbon and mineral exploration and environmental monitoring. [26L, 26P]

Prerequisite: GGR217Y/233Y/GSC220H/237H/SUR202H/235H

Recommended Preparation: PHY135Y/140Y/GSC120H

Offered in alternate years.

GSC337H Exploration Geophysics

Basic principles, instrumentation, field procedures and elementary interpretation techniques are outlined for gravity, magnetic, electromagnetic and seismic methods used in the exploration for mineral deposits. Practical work emphasises fieldwork and laboratory simulation of field surveys. [26L, 39P]

Prerequisite: GSC120H, PHY135Y/140Y

Offered in alternate years.

GSC375H Ancient and Modern Carbonates

This course is a practical guide to carbonate sediments and rocks (limestones and dolomites), and their analysis and interpretation in thin section and hand sample. The topics include grain types, grain size and other grain parameters, classification, neomorphism, cementation, dolomitization, diagenetic processes, and reef carbonates. [26L, 39P]

Prerequisite: GSC219H, 221H, 270H

Recommended preparation: GSC222H

Offered in alternate years.

GSC425H Field Camp II

Geological mapping is an essential task of geologists and requires the integration of many subfields of geology. This course introduces students to basic logistical techniques of geological mapping and to geological inference from field data. Students are required to produce a geologic map of one or more field areas, over a period of 12 days in various areas of Canada. Students will have to pay part of the cost of transportation and accommodation. [12 days in early May]
Prerequisite: GSC320H, 325H, 332H

GSC470Y Research Thesis

Arrangements for these independent research projects must be made with a Geological Sciences Faculty member before registration. Copies of the completed thesis must be submitted one week prior to the end of term classes.

Exclusion: GSC471H/472H

Prerequisite: Any 2 full course equivalents from the GSC300 series, plus a 75% average in the last 5 courses taken.

GSC471H Research Project

Arrangements for these independent research projects must be made with a Geological Sciences Faculty member prior to registration. Copies of the completed report must be submitted one week prior to the end of term classes.

Exclusion: GSC470Y

Prerequisite: Any 2 full course equivalents from the GSC300 series, plus a 75% average in the last 5 courses taken.

GSC472H Research Project

Arrangements for these independent research projects must be made with a Geological Sciences Faculty member prior to registration. Copies of the completed report must be submitted one week prior to end of term classes.

Exclusion: GSC470Y

Prerequisite: Any 2 full course equivalents from the GSC300 series, plus a 75% average in the last 5 courses taken.

J. Bielert, B.A., M.A., Ph.D.

C. Saas, B.A., M.A., Ph.D.

Discipline Representative and

Faculty Advisor: Professor C. Saas

Telephone: 828-5275

For more than a thousand years the German countries have been the cultural and political core of Central Europe. During the last two hundred years their importance has steadily increased, and with the recent developments in eastern Europe their influence seems bound to grow even further.

The importance of the German language has grown correspondingly: it is the second foreign language after English in the countries of eastern and southeastern Europe, and its use is spreading within the European Community. Learning German opens the door to many fields of intellectual, technical and politico-economic endeavour. German scholars have been leaders in Philosophy, the Sciences, History, Archaeology, Sociology and Political Science, while German literature is equally distinguished, with writers like Goethe, Kafka, Rilke, Brecht, Mann, etc., who have dealt with the widest possible range of human problems and concerns. Significant works of German literature from the Middle Ages to the present are the focus of the range of literature courses offered, allowing the student to acquire an historical overview of this element of German life and culture.

The Department of Germanic Languages and Literatures offers a variety of language courses on the beginners', intermediate and advanced levels. Courses have been designed to teach the clear comprehension of German texts, to practice translation and the oral use of the language, to develop stylistic skills, and to train students in the specialized vocabulary and concepts of business. The Department also tries to promote opportunities for students to study and work in Germany, where possible, by encouraging participation in programmes mounted with the help of the German government; in addition it offers help to students who wish to take part in the "Third Year Abroad" programme (see page 56 in the Calendar) by advising them on course choices and by keeping in touch throughout their time in Germany. Instruction in Dutch and Yiddish is also offered on the beginners' and intermediate levels.

A knowledge of German is a virtual necessity for specialists in certain disciplines; it is also very useful in certain career areas (e.g., the foreign service, interpretation and translation, librarianship, business and commerce, music, tourism, and, of course, teaching). The successful completion of a four-year programme, including seven approved courses in German, may entitle the student to enter the M.A. or Ph.D. programme in the Graduate Division of the Department. Students coming with some previous knowledge of German but without an O.A.C. qualification may be asked to write an initial assessment test and will then be advised to take courses at the appropriate level. Students who have taken German in High School to O.A.C. level will normally begin with course GER202Y. Students who desire information regarding German studies are advised to confer with Professor C. Saas (828-5275).

NOTE: Students with German-speaking background are expected to consult the Department about their programmes. Reading lists for the various courses are available from the Department. Students intending to specialize in German may also consult the St. George calendar for additional course offerings which may be counted for specialization.

GER100Y Introductory German

An intensive language course for students with no previous knowledge of German. Practice in comprehension, reading, writing and speaking. [130P]

Exclusion: OAC German/GER101H

GER101H Introductory German: Continuation

An intensive language course for students who have studied German, but who have not quite attained OAC level. Practice in comprehension, speaking, reading, and writing. This course is the spring term of GER100Y. [65P]

Exclusion: OAC German/GER100Y

GER202Y Language Practice I

Review of basic grammar, expansion of basic vocabulary, practice in comprehension and in the active skills of writing (translations, compositions) and conversation. The Department reserves the right to place students in the appropriate course in the series GER202Y,302Y,402Y. [104P]

Exclusion: GER200Y

Prerequisite: OAC German/ GER100Y/101H

GER204Y Introduction to German Literature

This course introduces students to the study of German literature and is obligatory for majors or specialists. The choice of texts is based on two chief criteria: that they be interesting and representative of a period of genre, and that they be linguistically accessible to students who are still developing their reading skills.

Prerequisite: OAC German or GER100Y/101H

GER222Y German Literature of the Nineteenth Century

The follow-up course to GER204Y, also obligatory for majors or specialists. Here students are introduced to 19th-century drama, prose and poetry. [78S]

Prerequisite: GER204Y

GER251Y The Development of German Cinema

German cinema from its beginnings as an art form to its current renaissance. Includes films by such directors as Murnau, Herzog and Fassbinder. Knowledge of German not required; previous film studies experience not required. [52S, 52P]

GER302Y Language Practice II

(Formerly GER210Y)

German at the intermediate level: extension of vocabulary, specific problems of grammar, practice in translation, essay-writing, reading and conversation. Students taking this course and intending to specialize in German must take a second-year literature course as well. The Department reserves the right to place students in the appropriate course in the series GER202Y,302Y,402Y. [104P]

Prerequisite: GER202Y

GER321H Literature of the Enlightenment

A study of selected works of the Aufklärung with emphasis on Lessing as its foremost representative. [39S]

Prerequisite: GER222Y

Offered in alternate years.

GER322H Literature of the Storm and Stress

A study of some of the early works of Goethe and Schiller and their contemporaries. [39S]

Prerequisite: GER222Y

Offered in alternate years.

GER326H Introduction to Middle High German

An introduction to the language, literature and civilization of Mediaeval Germany. [39S]

Prerequisite: GER210Y/222Y

Offered in alternate years.

GER331H Young Germany and Biedermeier

Post-Romantic literature in the first half of the 19th century; authors such as Heine, Büchner, and Stifter will be studied. [39S]

Prerequisite: GER222Y

Offered in alternate years.

GER332H 19th-Century Realism

The development of German literature in the wake of the Revolution of 1848. [39S]

Prerequisite: GER222Y

Offered in alternate years.

GER340Y Age of Goethe

This course concentrates on major works of Goethe and Schiller and is required in the specialist program. [78S]

Exclusion: GER425Y

Prerequisite: GER222Y

GER402Y Language Practice III

(Formerly GER310Y)

Study of idioms, translation, essay writing, reading, problems of grammar and oral practice. The Department reserves the right to place students in the appropriate course in the series GER202Y,302Y,402Y. [78P]

Prerequisite: GER302Y

GER421Y German Drama from Büchner to the Present: Theory and Practice

The development of modern German drama through the study of such playwrights as Büchner, Hebbel, Hauptmann, Kaiser, Brecht, Dürrenmatt, Handke and Kroetz. [78S]

Prerequisite: GER222Y

Offered in alternate years.

GER422Y Contemporary German Literature: 1945 to the Present

A study of major authors since World War II, including Böll, Frisch, Grass and Christa Wolf.. [78S]

Prerequisite: GER222Y

Offered in alternate years.

GER431H Early Romanticism

The origins and early manifestations of Romantic thought. Works by such authors as Friedrich Schlegel, Novalis, and Tieck. [39S]

Prerequisite: GER222Y

GER432H Later Romanticism

The culmination of the Romantic movement, including the Heidelberg group of writers, such as Arnim, Brentano, Eichendorff, the Grimm brothers, and E.T.A. Hoffmann. [39S]

Prerequisite: GER222Y

GER490H Independent Study

A reading and research project in Germanic literature or linguistics.

Prerequisite: Permission of Department to be obtained by May 1st for the Fall term; by November 1st for the Spring term.

GRK101H Introductory Classical Greek I

An introduction to the ancient Greek language. [52S]
Exclusion: OAC Ancient Greek/GRK100Y

GRK102H Introductory Classical Greek II

A continuation of GRK101H; preparation for the reading of Greek literature. [52S]
Exclusion: GRK100Y
Prerequisite: GRK101H

GRK201H Intermediate Classical Greek I

(Formerly GRK215H)
Review of grammar and further language training with readings in classical Greek prose and verse. [39S]
Prerequisite: OAC Greek/GRK102H

GRK202H Intermediate Classical Greek II

(Formerly GRK216H)
Continued language training with readings in classical Greek prose and verse. [39S]
Prerequisite: GRK201H

GRK203H Odyssey

(Formerly GRK213H)
Reading of Homer, *Odyssey*, at least three books (e.g. 6,9,11) in Greek, the rest in English. Further study of the language. [39S]
Pre- or Co-requisite: GRK201H/202H

L. Armstrong, B.A., M.A.
S. Aster, B.A., M.A., Ph.D.
M. Dafoe, B.A., M.A.
R.E. Johnson, B.A., Ph.D.
C. La Vigna, B.A., Ph.D.
L. S. MacDowell, B.A., M.Sc., Ph.D.
D.P. Morton, B.A., B.A., M.A., Ph.D.
A.C. Murray, B.A., Ph.D.
R.W. Pruessen, B.A., M.A., Ph.D.
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ERINDALE HISTORY HANDBOOK. A fuller description of the History programme is available in the History Handbook, which is produced in the Spring. It gives detailed information on course outlines, timetabling and programme requirements, and is available from the History Department, Room 227, North Building, phone 828-3725. It is an essential supplement to the Calendar, and students are urged to consult it. History is exclusively neither an art nor a science, but a subtle blend of the two. The historical imagination reaches beyond the limits imposed by scientific method, but it does not enjoy unfettered poetic license. What is not required of art is required of history - to discover what the old universe was like rather than to invent a new one. We study the past in order to influence, no matter how modestly, the world around us and the world within us. Historical inquiry is always a response to the human need for information, an understanding of the broad patterns of social development. Concentration in history can provide students with the analytical skills and intellectual judgement required in a number of fields. From academic research and teaching to a career in publishing, journalism or the media, the historian's contribution is substantial. Training in history is appropriate preparation for a career in law or in government service, for example, as a researcher, archivist or policy analyst. The history programme at Erindale is designed to give students a comprehensive view of the modern world. Strong core areas in European, Canadian and American History are supplemented by courses in British, Russian, Latin American and Third World History. As well, courses in ancient Greek and Roman History are offered by the Classics Department. Introductory 100 and 200 level courses are normally conducted as a combination of lecture and tutorial; more advanced courses are often offered as seminars, allowing students experience in independent research and in presenting their findings.

Students wishing to receive certification in History must register annually, beginning in their second year, with the History Secretary (Room 227, North Building), to ensure their progress through the programme.

HIS100Y Modern Europe, 1789-1945

Europe from the French Revolution through the Second World War. Political, economic, social and cultural aspects will be covered. [52L, 26T]
(Not offered in 1992-93)

HIS108Y The Rise of Europe, 1000 AD - 1914

A thematic introduction to the history of European society and its interaction with the rest of the world. [52L, 26T]

HIS110Y Headlines and History

Where did the problems and crises that are covered by today's newspapers and television come from? By combining an examination of significant contemporary issues with a study of some of their historical roots, this course will explore the tools and insights historians and students of history can bring to observation of the world around them. Specific topics will vary from year to year, but some of those which might receive attention include: South Africa and "apartheid"; Middle East tensions; "Star Wars" and disarmament; the cycle of growth and weakness in modern economies; drug use as a social crisis; rock music as a cultural phenomenon. [52L 26T]
Exclusion: HIS100Y
Enrollment will be limited.
(Not offered in 1992-93)

All 200 Level courses are open to first year students.

HIS200Y(I) Europe, 1300-1700

A survey of Europe in the late Middle Ages and the early Modern period, a time often characterized as a transitional phase between the 'Medieval' and 'Modern' worlds. [52L]
Exclusion: HIS243H,244H

HIS204Y(I) History of Italy

A general survey of the history of Italy: political, social, economic and cultural. [52L, 26T]

HIS220Y(I) The Shape of Medieval Society

An introductory survey of European history from the late Roman Empire to the fourteenth century outlining the major developments that account for the shape of medieval civilization and its influence on subsequent centuries. [52L, 26T]
(Not offered in 1992-93)

HIS231Y(I) History of Great Britain, 1800-Present

The major themes of British history from the early nineteenth century—the effects of industrial society, the development of parliamentary democracy, the emergence of the welfare state, foreign and empire relations, and religious, cultural and intellectual change. [52L, 26T]
Exclusion: HIS234Y,239H

HIS233Y(I) Politics and Social Change in England, 1530-1800

An introduction to the development of government and society in England from the sixteenth to the eighteenth century. Attention will be given to such events as the English Reformation, the Civil War, the Glorious Revolution, the beginning of industrialization, and the challenge of the American and French Revolutions. [52L, 26T]
Exclusion: HIS230Y,234Y,238H
(Not offered in 1992-93)

HIS241H(I) Europe in the 19th Century

An introduction to the principal themes of western and central European history from the fall of Napoleon to the 1890's. [26L, 13T]
Exclusion: HIS100Y

HIS242H(I) Europe in the Contemporary Era

The evolution of European politics, culture, and society from 1890: the origins and consequences of the two world wars, the Bolshevik Revolution and Stalinism, Fascism and Naziism, the post-1945 reconstruction and division of Europe. [26L,13T]
Exclusion: HIS100Y

HIS248Y(I) The Industrial Revolution

The economic, technological and social transformation of European society in the eighteenth and nineteenth centuries. Why did these transformations occur when they did, and why did certain nations become industrial more rapidly and completely than others? [52L, 26T]
(Not offered in 1991-92)

HIS262Y(I) History of Canada

An introduction to the social, political and economic history of Canada. Particular attention to regional diversity, the development of political movements, and the implications of economic development based on staples. [52L, 26T]

HIS271Y(I) American History Since 1607

A survey of significant developments in American history (e.g., the American colonies, the Revolution, the Civil War, industrialization, the effects of the Cold War) and important characteristics of American society (e.g., social mobility, racism, imperialism). Lectures and readings will combine the perspectives of political, social, economic and diplomatic history. [52L, 26T]

HIS290Y(I) Latin America: From Conquest to Revolution, 1492 - the Present

Major themes in the history of South and Central America and the Caribbean from the time of Columbus to the present. Discussion will focus on such issues as nationalism, development and underdevelopment, revolution, militarism and cultural identity. [52L, 26T]

Exclusion: HIS289H, HIS290H

HIS300Y War and the Military in American History

How Americans have approached, experienced and been affected by war, and the development and sociology of the military establishment, beginning with the nature of early modern warfare and its application in Anglo-America through United States involvement in Vietnam and the experiment with a volunteer army. [52L]

(Not offered in 1992-93)

HIS304H History by Numbers

Through a series of case studies, this course will examine the uses of quantitative evidence in history, and the role of computers in analyzing such evidence. Case studies will include the economic basis of slavery; the "rise of the gentry"; historical trends in births, marriages, and death; labor unrest; and voting behavior. In each instance, published works will be discussed and criticized, and simple exercises (some involving computers) will be used to demonstrate the methods and problems associated with this branch of historical study. [13L, 13T]

Prerequisite: One History course
(Not offered in 1992-93)

HIS307H The Russian Revolution of 1917

The fall of the Romanovs and the coming to power of the Bolsheviks have been subjects of intense controversy for more than 60 years. This course will examine the principal interpretations of these events by focusing on original sources from 1917, e.g., memoirs, resolutions, diplomatic and journalistic reports, all of which are abundantly available in English. Each student will focus on a single party or personality, whose actions and ideas will be followed through the tumultuous days of 1917. [26L]

Recommended Preparation: One course in Modern European History
(Not offered in 1992-93)

HIS308Y The History of Women

A broad survey of women in European society from medieval to modern times. [52L, 26T]
Recommended Preparation: A course in European history

HIS310H The American West

Westward expansion and the West in the life of the nation from the colonial era through the twentieth century. Major themes will include myths of the American frontier; the migration of peoples and transportation developments; the farming, cattle and mining frontiers; problems of law and order and confrontations with Native Americans; western society and culture; the urban west; and the frontier heritage. [13L, 13T]

Recommended Preparation: HIS271Y

HIS311Y Introduction to Canadian International Relations

Canadian international affairs in a broader context. Anglo-American as well as Canadian-American relations; the European background to questions such as the League of Nations, appeasement and rearmament, which directly affected Canada without this country being consulted. [52L]

Recommended Preparation: A course in Canadian history or politics
(Not offered in 1992-93)

HIS313Y Canadian Labour and the Left

A study of working people, of the Canadian labour movement since Confederation and the development of Canadian radicalism. Social, economic and regional themes will be incorporated. [52L]

Prerequisite: HIS262Y/ECO244Y

HIS314Y French Canada Since the Conquest

The development of the French-Canadian community in Canada, French-Canadian nationalism, the political and economic development of Quebec, and the cultural evolution of French-Canadian society both within and outside of Quebec. [52S]

Prerequisite: HIS262Y
(Not offered in 1992-93)

HIS315Y Bandits, Pirates and Outlaws in History

Historical analysis of delinquency and outlawry, from Robin Hood to the Mafia. Themes to be examined will include "social banditry" (Robin Hood, Pancho Villa, Billy the Kid, etc.); the classic Caribbean privateers of the 17th century (Sir Francis Drake, Henry Morgan, etc.); elite-sponsored gangsterism in rural societies (as in southern Europe and Latin America until recent times); criminal protection rackets (the Mafia); and political guerrilla movements. [52L, 26T]

Recommended Preparation: Any previous course in history.
(Not offered in 1992-93)

HIS327Y From Antiquity to the Middle Ages: Europe 300-800

Lecture course on the transition from ancient to medieval civilization. Required reading consists of primary sources in translation. Lectures may deal with general topics of the period, but emphasis is on the context of the source material and its role in shaping the interpretations of modern historiography. [52L]

Exclusion: HIS326Y/424Y

Prerequisite: Course in ancient or medieval history.

(Not offered in 1992-93)

HIS328H Nationalism in Canada

Canada was born in the wake of nineteenth-century nationalism and nationalism has been a persistent theme in its history. The course will review the nationalist ideas of Blake, McCarthy, Bourassa, Ewart, Groulx, Dafoe, Grant, Levesque and their contemporaries. [26L]

Prerequisite: HIS262Y

HIS329Y The Conflict of Nationality in Modern Ireland

A topical analysis of modern Irish history concentrating on the conflict of constitutional, social, revolutionary and cultural nationalism. Topics include Fenianism, Home Rule, the 1916 rising, the partition of Ireland and the 'time of trouble' in Northern Ireland since 1968. [52L]

Exclusion: SMC348Y

HIS335H Mexico: From Conquest to Independence (1519-1810)

The formation of the Mexican nation from the destruction of the Aztec empire by Hernan Cortes and his band of adventurers, through 300 years of Spanish colonial rule to the outbreak of the struggles for independence. [13L, 13T]

Recommended Preparation: HIS289H/ 290H/ 290Y

(Not offered in 1992-93)

HIS337Y British History, 1815-1914

The major themes of British history from the late 18th Century: the emergence of industrial society, the fate of aristocracy and religion, cultural and intellectual change, foreign relations, constitutional development and political history. [52S]

Prerequisite: P.I.

(Not offered in 1992-93)

HIS338Y From Empire to Welfare State, 1906-Present

A topical analysis of political, economic and social issues in modern British history.

Themes include the decline of the Liberal Party, the impact of two world wars, the making of the welfare state, empire developments, post-war Labour and Conservative Britain. [52L]

(Not offered in 1992-93)

HIS340Y The Reformation in Europe

The focus of this course will be the religious movements of the sixteenth century that are described collectively as the Reformation: Lutheranism, Calvinism, radical reform and the Counter-Reformation. The course will also consider religious and intellectual precursors of the Reformation and the relationship between religious reform and the socio-political structures of early modern Europe. [52L]

HIS343Y France and Germany 1848-1945

A comparative study of the development of France and Germany from the revolutions of 1848 to the end of the Second World War. Emphasis will be on the interaction of economic, social and political developments - including the diplomatic relations between them - but students will be free to pursue topics in intellectual and ideological history. [52L]

Prerequisite: P.I.

(Not offered in 1992-93)

HIS354H Aspects of English-Canadian Culture in the Twentieth Century

The course surveys major developments in culture and the arts since World War I. It examines the impact of the media and institutionalization on the culture industry and analyses the increasing involvement of the state. We will study art, publishing, the theatre, radio, the film industry, television and sports. [26L]

Exclusion: HIS419Y(G)

Prerequisite: A university-level course in modern Canadian history

(Not offered in 1992-93)

HIS356H Serfdom in Russia

Why did serfdom arise and grow stronger in Russia at a time when similar systems of bondage were declining in Western countries? This course will examine the social and economic foundations of bondage in relation to other forces and trends: autocratic government, economic development, military organization, agricultural productivity, and peasant resistance. [13L, 13T]

(Not offered in 1992-93)

HIS357Y The Renaissance

A cultural history of the 15th and 16th centuries set against the socio-economic background. The course will concentrate upon the development of the Renaissance in Italy and will deal with its manifestations in Northern Europe. [52L]
(Not offered in 1992-93)

HIS360Y The Canadian Political Tradition

The development since the 1830's of conservative, liberal, and radical approaches to the ideas and methods of Canadian political life. [52L, 26T]

Recommended Preparation: HIS262Y
(Not offered in 1992-93)

HIS367Y Problems in Canadian-American Relations

This course will deal with political, economic and cultural relations between Canada and the United States since the American Revolution. Particular emphasis will be given to American economic and cultural influences upon Canada. [52L]

Exclusion: HIS461Y(G)

HIS368H Canada in the First World War

The First World War offers a focus for examining every aspect of Canadian society in an age recognizable and different from our own. Seminars will address the basis for Canada's involvement in the conflict, the Canadian military response and the problems and achievements of the CEF overseas and the impact of the war on Canada itself. [26S]

Exclusion: HIS392Y

Prerequisite: HIS262Y/POL100Y
(Not offered in 1992-93)

HIS369H Industrialization of Russia, 1860-1939

A comparison of industrialization efforts of the tsarist and Soviet governments: dilemmas of backwardness; international trade and competition; mobilization of labour and capital; technology; pressures on the consumer economy; labour organizations and unrest. [13L, 13T]

(Not offered in 1992-93)

HIS372Y The United States in the Twentieth Century

Major developments in the economic, social, political, and cultural life of the United States during the past century. [52L]

HIS376Y The United States Between the Wars, 1918-1941

The study of economic, political, cultural and diplomatic developments associated with the emergence of "modern America." Major topics will include: the strengths and weaknesses of a consumer and corporate society; the transition from Republican to Democratic Party dominance; youth culture and protest culture; and the expansion of economic and political activity in the international arena. [26L, 26T]

Recommended Preparation: HIS271Y/372Y

(Not offered in 1992-93)

HIS377Y Topics In Twentieth Century American Diplomacy

An examination of United States behaviour on the international scene since the 1890s. Economic, political and ideological factors involved in the growth of the American empire, World War I, World War II and the Cold War will be studied. [26L, 26T]
(Not offered in 1992-93)

HIS379H Spain and Portugal from Napoleon to Franco, 1808-1936

The Iberian powers, pioneers in European expansion, had by 1800 been reduced to a marginal position in European politics. This course will examine the tremendous crisis provoked by the Napoleonic invasion and the independence of Latin America, the prolonged liberal/conservative struggles of the 19th century, the slow beginnings of industrialization, and the emergence of combative anarchist and socialist movements leading up to the pro-fascist coup of 1926 in Portugal and the Spanish Civil War (1936-39). [13L, 13T]

(Not offered in 1992-93)

HIS385H History of Upper Canada

This course covers the social, economic and political history of Upper Canada in some detail. The themes include settlement, religion, education, social conflict and reform among others. [26L]

Exclusion: HIS365Y

Prerequisite: HIS262Y

HIS387H History of Ontario Since 1867

This course traces the political and economic history of Ontario. It covers the period of confederation to the present and focuses on industrial development, regional characteristics and federal-provincial relations. [26L]

Exclusion: HIS365Y

Prerequisite: HIS262Y

(Not offered in 1992-93)

HIS390H Canada and the Second World War

A study of the political, military, economic and social experience of Canada during a period of catalytic change, 1939-45, including industrial mobilization, the conscription crises, Canada's relations with her allies and her operational roles. [26L]

Exclusion: HIS392Y

Prerequisite: HIS262Y

(Not offered in 1992-93)

HIS391H Mexico: Independence to Revolution, 1810-1960

A seminar considering the growth of the Mexican nation from the struggle for independence to the "institutional revolution" of today. [13L, 13T]

Recommended Preparation: HIS335H

(Not offered in 1992-93)

HIS397H Fascism and Democracy: Spain and Portugal, 1926-the Present

With the outbreak of the Spanish Civil War in 1936, the deep-rooted social conflicts of the Iberian peninsula merged with the general European struggle between fascism and democracy. The course will examine both political and military aspects of the civil war, the Franco and Salazar dictatorships, the role of the Church, the Communist Party and the liberal opposition in both countries, leading up to the Portuguese Revolution of 1974-75 and the liberalization of Spain following Franco's death in 1976. [13L, 13T]

Prerequisite: P.I.

HIS404Y Canadian Politics in the Twentieth Century

The ideas, functions, and changing structure of political parties and the party system in the twentieth-century Canada, with a special focus on third parties and major political personalities. [52S]

Recommended Preparation: HIS262Y

(Not offered in 1992-93)

HIS415H The Reform Tradition in Canada (Formerly HIS366H)

An examination of the reform era in Canada from the 1890s to the 1930s. Particular attention will be given to the growth and impact of the social gospel, temperance and prohibition, the women's movement, the cooperative movement and the peace movement. [26S]

Exclusion: HIS319Y

Recommended Preparation: HIS262Y

(Not offered in 1992-93)

HIS417Y Indians and Indian Policies in American History

A study of the relationships between Indian tribes and the government and society of the United States. Major themes will include pre-contact society and culture; the colonization of America and the origins of race consciousness; Indian removal; movements for cultural renewal; the frontier wars and Indian participation in America's major wars; the concentration, reservation and allotment policies; the Indian New Deal; and the Red Power movement. [52S]

HIS429H Studies In Irish History

A topical analysis of some important and contentious issues in modern Irish history. Subjects to include the Act of Union, Catholic emancipation, Ulsterism, the Great Famine, the Home Rule movement, and the Easter Uprising. [26S]

Prerequisite: HIS 329Y or P.I.

(Not offered in 1992-93)

HIS430H Money, Religion and Law in Early Modern Europe

This seminar will consider the role of religious, social and legal norms in the development of capitalism between 1350 and the industrial revolution. Various historiographical and methodological approaches to the problem of early capitalism will be explored with reference to primary texts in translation. [26S]

Prerequisite: A course in European or economic history, or permission of the instructor.

HIS431Y Topics in Twentieth Century British Diplomacy

The exercise and decline of British power in foreign affairs, including war aims and the peace settlements of World War One, appeasement between the wars, World War Two, socialist alternatives in foreign affairs, the Suez crisis, Rhodesia, and the European Economic Community. [52S]

(Not offered in 1992-93)

HIS440Y War and Revolution in 19th Century Europe

The impact of war and revolution on European history from Napoleon to the First World War. Major topics will include the Napoleonic Empire and the Vienna Settlement, the Revolutions of 1830, the Revolutions of 1848, the Crimean War, the wars of Italian and German unification, the Russo-Japanese War and the Russian Revolution of 1905, the Balkan Wars, and the First World War. [52S]

Exclusion: HIS327Y

Prerequisite: P.I.

HIS445Y The Viking Age

A seminar on the history of Europe from the eighth to the eleventh centuries with emphasis upon the Scandinavians and their relations with western European civilization. Readings will be in both primary and secondary sources. [52S]

HIS452H The Great Depression in Canada

This course explores the social, economic and political crisis in the 1930's. It examines social welfare policies, cultural developments, themes of regionalism and federalism and political change. [26S]

Prerequisite: A university-level course in modern Canadian history
(not offered in 1992-93)

HIS455Y Problems in Russian and Soviet Social History

From the Great Reform (1860s) to the Stalinist purges (mid-1930s). A review of the dilemmas and controversies associated with social change: the traditions and the dynamics of peasant (and landlord) society, the pressure of industrialization and urbanization, the revolutionary intelligentsia and its relation to the worker and peasant masses, the State bureaucracy's efforts to induce and regulate social development.

Prerequisite: P.I.
(Not offered in 1992-93)

HIS459H History of Women in Canada

The role of women in the social and economic development of Canada since the founding of New France. Topics include: amerindian women, women in the fur trade, pioneer women, Victorian girl-hood, marital sex and birth control, child-birth and motherhood, working women, feminism and reform, and the suffrage campaign. [26S]

Exclusion: HIS359H

Prerequisite: P.I.
Limited Enrolment
(Not offered in 1992-93)

HIS476Y Totalitarianism

(Formerly HIS355Y)

An examination of controversial interpretations of this period by some of Europe's leading authors with a view to understanding better what underlies the triumph of the 20th century totalitarian movements - Fascism, Nazism, and Stalinist Communism. [52S]

Prerequisite: P.I.
(Not offered in 1992-93)

HIS478Y Immigration and Ethnicity in American History

(Formerly HIS393Y)

The course will consider the extent to which the United States has been a "melting pot", including migrations to and settlement patterns in America, concepts of nationality and race, and the processes of assimilation and acculturation. [52L]
(Not offered in 1992-93)

HIS479Y Cold War America

An examination of significant political, economic, social and intellectual developments, including Cold War foreign policies, economic and social reforms, McCarthyism, the Civil Rights movement, women's liberation, the "counter-culture," and the Indochina Wars. [52S]

Prerequisite: P.I.
(Not offered in 1992-93)

HIS484Y Revolution and Reaction in Latin America

A course focusing on politics and revolutionary movements in modern Latin America and related areas (e.g., southern Europe); emphasis will be placed on three or four particular countries, to be studied on a comparative basis. The course will also attempt to introduce possible approaches to history as a social science. [52S]
(Not offered in 1992-93)

HIS487Y Canadian Social History

The transformation of Canada from an agrarian to an industrial society. Themes include migration and ethnicity, urbanization and industrialization, violence and social order, social stratification, education and family life, work relations. [52S]

Recommended Preparation: HIS262Y
Prerequisite: P.I.

HIS491Y International Relations, 1870-1945

(Formerly HIS353Y)

The international relations of the European powers at their zenith and in decline. The interaction of the European powers is studied from the creation of the Second Reich to the origins of the First World War, the Versailles settlement, the inter-war "twenty year crisis" through the Second World War. The economic and social framework will be examined as well as political conflicts. [52S]

Prerequisite: P.I.
(Not offered in 1992-93)

HIS497Y Independent Reading

An independent study of an area of particular interest to a student or group of students carried out under the supervision of a staff member. No student may take more than one Independent Reading course in a single year.

Prerequisite: P.I.

HIS498H Independent Reading

An independent study of an area of particular interest to a student or group of students, carried out under the supervision of a staff member. No student may take more than one Independent Reading course in a single year.

Prerequisite: P.I.

HIS499H Independent Reading

An independent study of an area of particular interest to a student or group of students, carried out under the supervision of a staff member. No student may take more than one Independent Reading course in a single year.

Prerequisite: P.I.

S. Bancheri, B.A., M.A., Ph.D.

G. Katz, B.A., M.A., Ph.D.

M. Lettieri, B.A., M.A., Ph.D.

L.T. McCormick, B.A., A.M., Ph.D.

G. Pugliese, B.A., M.A., Ph.D.

Discipline Representative and

Faculty Advisor: G. Katz

Room 167A

Telephone:

828-3766

The Italian programme at Erindale is designed to provide a comprehensive study of the diversity which is Italy, a country whose culture continues to be a significant force in the shaping of Western civilization. The greatest attention is devoted to literature, as a principal manifestation of the national spirit, with courses organized around major figures, movements or genres, but other facets of Italian life and civilization are also examined. Language is studied scientifically from all points of view - practical, stylistic, philological and historical - at all levels of instruction. Knowledge of another language and culture is regarded favourably by other disciplines and is frequently required for graduate-level studies. Graduates in Italian are in demand and will continue to be. There are career opportunities in teaching, foreign affairs, government, social services, trade and law. Furthermore, the presence of large Italian communities throughout Canada provides a social, intellectual and practical incentive for the study of Italian.

Students are free to design for themselves the programme of study best suited to their interests and needs, and they can choose from available courses at Erindale and at St. George. There are conditions, however, which must be satisfied (a) for specialization (in Italian alone) (b) for a major (in Italian and another discipline) and (c) for a minor. In case of uncertainty with regard to the programme of study, course content, graduate studies requirements, or any related matter, students are strongly advised to consult the Associate Chairman for Italian at Erindale.

ITA100Y Italian for Beginners

An introduction to the Italian language for students of non-Italian linguistic background. Essentials of grammar, oral practice, language laboratory, translation. [104L, 26P]
Exclusion: Previous schooling in Italian

ITA110Y Beginning Italian For Dialect Speakers

(Formerly ITA115Y)

An introduction to the main elements of Italian grammar for students who speak, understand or have studied some Italian but do not have Grade 12 or OAC equivalent. Language laboratory, linguistic study of modern Italian prose, composition, conversation. [104L, 26P]
Exclusion: OAC Italian/or equivalent

ITA200Y Continuing Italian

This course consists of a thorough review of grammatical structures and is designed to improve the students' self-expressiveness in Italian. Selections from contemporary authors and passages dealing with present-day issues are used as a basis for discussion in Italian. For students whose background in Italian is solely academic. [78L, 26P]

Prerequisite: OAC Italian/or equivalent/ITA100Y/P.I.

ITA210Y Continuing Italian for Dialect or Native Speakers

A comprehensive review of Italian grammar with readings from a variety of texts.

Composition and conversation are integral parts of this course. [78L, 26P]

Prerequisite: OAC Italian/or equivalent/ITA110Y/P.I.

ITA221Y Forms of Modern Italian Literature

An introduction to twentieth-century Italian literature through a study of representative "novelle", shorter works of fiction, plays and poetry. Selections will include writings by Moravia, Calvino and Pandolfi and the major poems of Saba, Ungaretti, Montale, Quasimodo and others. [52L, 26T]

Prerequisite: OAC Italian/or equivalent/ITA100Y/110Y

Recommended Preparation: Good knowledge of Italian.

Exclusion: This course is not open to students who have already completed a 300+ series or 400+ series course in Italian literature.

Offered in alternate years.

ITA230Y Italian Literature Through the Ages

A survey of the shorter forms of Italian literature from the Middle Ages to the beginning of the twentieth century. Emphasis will be given to poems and "novelle", but theoretical pieces and short plays of recognized literary significance will also be examined. [52L, 26T]

Prerequisite: OAC Italian/or equivalent/ITA100Y/110Y; 3rd and 4th year students need departmental permission.

Offered in alternate years.

ITA235Y Topics in Italian Civilization

Various aspects of modern Italian civilization such as fascism, the Resistance, mafia, industrialization, language and mass-media, immigration, the generation of '68, terrorism, women's liberation, religion and political ideologies will be discussed through a selection of short stories, novels, sociological and historical documents, articles from newspapers and magazines. [52L, 26S]

Exclusion: ITA245Y

Prerequisite: OAC Italian/or equivalent/ITA100Y/110Y

Offered in alternate years.

ITA240Y Italian Cinema (In English)

A course designed to explore the characteristics of the modern Italian film. The stress will be on works by such established masters as Visconti, Fellini and Antonioni, but films by younger directors will also be examined. Analysis and discussion to be entirely in English. [52L, 26P]

ITA245Y Italian Culture and Civilization

The main elements of Italian civilization from the time of Dante until the present in literature, art and thought with reference to political history where appropriate. Given in English and offered only for the February Admission Program. [52L 26S]

ITA273Y Italian Comic Theatre: Text and Performance

A study of representative comic plays from the Renaissance to the Nineteenth Century with a consideration of staging and acting techniques mainly through the production of a specific comedy. [26L, 52P, 26T]

Prerequisite: OAC Italian/ITA100Y, 110Y/P.I.

Recommended Preparation: A good knowledge of Italian

NOTE: Admission to the course is conditional on passing an oral/written test at the beginning of the academic year.

ITA321Y Dante's *Divina Commedia*

An introduction to the work and thought of Dante, with special emphasis on the *Inferno* and *Purgatorio*. [52L, 26T]

Prerequisite: ITA200Y/210Y

ITA324Y Renaissance Prose and Poetry

An examination of treatises by Machiavelli, Castiglione, and Guicciardini, and poems by Lorenzo de' Medici, Poliziano, and Michelangelo, in relation to trends in Renaissance thought and the new concept of man and the world. [52L, 26T]

Prerequisite: ITA200Y/210Y/350Y

Offered in alternate years.

ITA325H Leopardi's *Poetry*

A close reading of the poetry of Italy's finest lyric poet in the light of his prose writings and within the context of Classical and Romantic traditions. [26L, 13T]

Prerequisite: ITA200Y/210Y

Offered in alternate years.

ITA340Y Italian Neo-realist Cinema

An analysis of the neo-realist movement in Italian cinema, and its relation to the political and social climate of post-war Italy.

Screenings will include selections from the major exponents of Italian Neo-realism from Rossellini to the early Fellini. Conducted in English [52L, 26P]

Offered in alternate years.

ITA350Y Language Practice

Intermediate - advanced level language course designed to give the student oral and written proficiency. Selected readings on questions of topical interest, discussions, compositions. [52L, 26P]

Prerequisite: ITA200Y/210Y

ITA355Y Intensive Language Practice

The aim is to provide students with the necessary oral and writing skills required in the literature courses and for effective communication through the intensive examination and performance of expressive strategies. [26L, 52P]

Exclusion: ITA351Y(G), 352Y(G)

Prerequisite: ITA200Y/210Y/P.I.

Recommended preparation: Knowledge of the fundamentals of the Italian Language.

ITA371Y Advanced Translation

Techniques and theories of translation, using modern texts containing a variety of linguistic codes. Some simultaneous translation. [26L, 52P]

Prerequisite: ITA350Y/P.I.

Offered in alternate years.

ITA372Y Pirandello and Modern Italian Theatre

The problem of conflicting realities and of the definition of the personality in the plays of Pirandello. Works by Betti, Fabbri, De Filippo and Fo will also be read. [52L, 26S]

Exclusion: ITA272H

Prerequisite: ITA200Y/210Y

Offered in alternate years.

ITA390Y 20th-Century Novel

Masterpieces of modern Italian fiction analyzed against the background of modern-day Italy. Works to be read include novels by Svevo, Vittorini, Silone, Moravia, Pavese. [52L, 26S]

Exclusion: ITA270H

Prerequisite: ITA200Y/210Y

Offered in alternate years.

ITA395H Major Novels of the 19th Century

A study of the genesis and evolution of the Italian novel, with a close reading of Alessandro Manzoni's *I promessi sposi* and Giovanni Verga's *I Malavoglia*. [26L, 13T]

Prerequisite: ITA200Y/210Y

Offered in alternate years.

ITA421H Petrarca

(Formerly ITA326H)

A study of Petrarca's poetry with some consideration of his influence on Italian and other literatures. [26L, 13T]

Prerequisite: ITA200Y/210Y

Offered in alternate years.

ITA422H Theory and Practice of Textual Criticism

Central concerns of textual criticism, historical survey of discipline, principles involved in the reconstruction of early Italian texts, the various types of critical edition, analysis of recent works, actual reconstruction of an early text. [13L, 13S, 13P]

Prerequisite: ITA350Y

Recommended Preparation: Sound knowledge of Italian.

Offered every 3 years.

ITA427H Boccaccio

A critical portrait of one of "the three crowns of Florence" through an examination of representative selections from his minor works and a detailed analysis of his masterpiece, the *Decameron*. [26L, 13T]

Prerequisite: ITA200Y/210Y

Offered in alternate years.

ITA436Y The 18th Century in Italy

An investigation of the intellectual trends and literary forms in Italy from the pre-enlightenment to Romanticism. Readings from the works of Vico, Muratori, Gravina, Metastasio, Rolli, Parini, Verri, Beccaria, Goldoni, Alfieri and others. [52L, 26T]

Prerequisite: ITA200Y/210Y

Offered in alternate years.

ITA437H Topics in the History of the Italian Language

The linguistic transition from Latin to Italian, the "Questione della lingua", developments in the 18th and 19th centuries, contemporary trends. Reading and linguistic analysis of representative texts. [13L, 13S, 13P]

Prerequisite: ITA200Y/ 210Y/350Y/355Y

Recommended Preparation: Knowledge of Medieval/Renaissance and modern Italian literary culture.

Offered every 3 years.

ITA450Y Advanced Composition

Analysis of expressive strategies and discussion of problems relating to syntax, morphology and vocabulary as they arise from individual compositions and essays and from selected reading passages. [26L, 52P]

Prerequisite: ITA210Y/350Y/355Y

Offered in alternate years.

JBG230Y(I) Man and Environment

Past and present man-environment relationships are examined; principles of ecology, environmental ethics and esthetics are outlined; crucial alternatives for man are discussed. Problems of current environmental concern - land use, material and energy resources, and pollution are considered and illustrated by case studies from different parts of the world. A charge may be made to partially cover the cost of transportation provided for field trips. Given by the Departments of Biology and Geography. [52L, 26T]

JBG491Y Environmental Research Project

Independent research on an environmental topic carried out under the supervision of a staff member whose written consent is required for registration. This project course is open to third and fourth year students. A written report of the research will be required and a seminar presentation may be required. Given by the Departments of Biology and Geography. [TBA]

Exclusion: All other courses in independent research.

Prerequisite: P.I.

LAT101H Introductory Latin I

An introduction to the Latin language. [52S]
Exclusion: OAC Latin/LAT100Y

LAT102H Introductory Latin II

A continuation of LAT101H; preparation for the reading of Latin literature. [52S]

Exclusion: LAT100Y

Prerequisite: LAT101H

LAT201H Intermediate Latin I

(Formerly LAT205H)

Readings of selections of prose and verse works with systematic language study. [39S]

Prerequisite: OAC Latin/LAT101H, 102H

LAT202H Intermediate Latin II: Caesar and Cicero

(Formerly LAT213H)

Selections from Caesar's Gallic War and the correspondence of Cicero, with systematic language study. [39S]

Prerequisite: LAT201H

LAT203H Catullus

(Formerly LAT215H)

Selections from the poems of Catullus with emphasis on their literary quality. [39S]

Prerequisite: LAT201H/202H

LAT228Y(I) Introduction to Roman Law

The purpose of this course is to improve the Latin of students with some interest in law.

The reading will be selections from the second century A.D. textbook of Roman law, the *Institutes* of Gaius, which divides its subject into the law of persons, the law of things and the law of actions. Schultz' *Classical Roman Law* will be used for reference. The course will include some lectures on the history of Roman Law. [52T]

Prerequisite: OAC Latin/LAT100Y/101H, 102H

D. James, B.A., M.A., Ph.D.

The aim of Linguistics is to develop an understanding of how all languages work, and of how languages use disparate means for the same effects. The theme is the unity and the variety of human language. Such a theme subsumes many variations, including grammatical theory and its application to data, language divergence and convergence in space and time, the sociocultural stratification of linguistic systems, normal and pathological language behaviour and language learning. Undergraduate Linguistics is a valuable component of a liberal education, especially in a multi-lingual country such as Canada. It is also valuable as pre-professional training for people interested in teaching English, French or other languages, in areas of rehabilitative medicine such as audiology or speech therapy, in special education, in work with native peoples or with immigrant groups in our society, in religious and missionary work, or in academic disciplines such as psychology, philosophy, literature and language studies, where the contribution of linguistics is increasingly recognized as important. Students interested in linguistics should consider the following: ENG200Y, FRE272Y, GER326H, MAT104H, PHL245H, PSY315H, PSY374H, SOC152Y, SOC309Y, SPA425H.

LIN100Y Introduction to General Linguistics (formerly LIN130Y)

Lectures on fundamental principles with illustrations from English and from a broad spectrum of other languages. Practice in production recognition of speech sounds, and elementary analytic techniques. [52L, 26T]

V. Aivazian, B.S., M.A., Ph.D.
L.J. Brooks, B.Com., M.B.A., F.C.A.
M.J. Bryant, B.Com., M.Com., M.A., Ph.D.,
A.C.A.
M.G. Evans, B.Sc., M.Sc. Technology, M.I.A.,
Ph.D.
V. Fortunato, B.Com., M.B.A., C.M.A., C.A.
H.P. Gunz, B.Sc., D.Phil, Ph.D., Dp.B.A.
J. Kitunen, B.B.M., C.A.
C. Reed, B.A., C.M.A.
M. Roxas, B.Com., M.B.A., Ph.D.
P. Saunders, B.A., M.A., Ph.D.
M. Schneider, B.Com., M.B.A., C.A.
A.K.P. Wensley, B.A., M.A., M.B.A., Ph.D.

Special Lecturers

C. Waite-Leonidas, L.L.B.

Faculty Advisor: Professor H.P. Gunz

Student Counsellor: Ms. J. Brown

Telephone: 828-5309

Commerce Programmes Handbooks are available from the Management Department, 2nd Floor, Kaneff Centre for Management and Social Sciences.

There are two main programmes offered: the specialist programme leading to the B.Comm. degree, and the major programme leading to the B.A.

The objective of the Commerce Programmes is to help students develop analytical skills and knowledge of business and government institutions which will be useful in solving problems and making decisions while at the same time obtaining a broad education. The programmes provide a foundation on which professional and managerial skills may be built.

The specialist programme in Commerce and Finance, a four-year programme leading to the degree of Bachelor of Commerce, has two main areas of concentration: management and economics. This feature of the University of Toronto programme equips students to deal with the increasing interaction between the private and public sectors of the economy and the inter-relationships between the economies of different countries. This basic approach is incorporated into the programme by the requirement that students take a minimum of seven courses in each of management and economics.

The first two years of the programme emphasize basic disciplines (accounting, economics, mathematics) and other liberal arts subjects. In the third and fourth years students build on this base by taking courses in management subjects such as advanced accounting, finance, marketing, administrative theory, and decision sciences, further courses in economics and courses in other subjects such as actuarial science, political science and computer science.

Graduates of the specialist programme pursue careers in a broad range of business-related occupations including accountancy, industrial and commercial management and the financial services sector, amongst many others. The College's Career Centre has more information on this topic. In some cases graduates of the programme undertake further university studies, such as business administration or law, or take programmes sponsored by professional associations in order to obtain professional certification as accountants. Courses in both the specialist and major programmes are available to students in the evening hours so that part-time students may enter the programmes.

BECAUSE OF LIMITED RESOURCES, ENROLMENT IN BOTH PROGRAMMES AND COURSES IS RESTRICTED. Admission to the programmes is normally made at the beginning of the student's second year at the University and is based on the student's marks in the courses taken to date at the University.

St. George Campus students who transfer to B. Com. or Major programmes at Erindale cannot take St. George courses until they have completed five full credits, and then only under special circumstances.

Both the University of Toronto degree programmes in Commerce are offered at Erindale: the Commerce and Finance Specialist (B.Com.) and the Major in Commerce (B.A.). In addition MGT100 series courses are available to students seeking degrees outside the Commerce discipline.

Balloting: All Management courses above the 100 level require ballots to be filed in the Commerce Office in the Spring. The ballots will be used as a basis for checking whether the students are eligible to enroll in the course and to allocate places in courses which become oversubscribed.

MGT course numbering: the middle digit indicates the area of study as follows:

- 1 - Economics
- 2 - Accounting
- 3 - Finance
- 5 - Marketing
- 6 - Organizational Behaviour
- 7 - Information Systems
- 9 - Law and Management

MGT120H Financial Accounting I

An introduction to the theory and concepts of financial accounting. The course will consider the uses and users of financial statements as well as issues concerning financial statement presentation. [26L, 13P]

MGT121H Financial Accounting II

Financial accounting issues are addressed, including revenue recognition, valuation models and accounting for liabilities. The course will emphasize the role of judgement in the preparation of financial statements. The course is intended for students concentrating in accounting. [26L, 13P]

Exclusion: MGT222H

Prerequisite: MGT120H with at least a C grade

POL209Y Public Administration and Public Policy in Canada

Combines a study of the organization, processes and issues in Canadian public administration with a study of the institutions and processes involved in policy making. Also focuses on the study of specific policy areas including some of the following: economic policy, social welfare, regional disparities, and industrial development. [52L]

Prerequisite: MGT120H/102H/121H/103H/POL100Y/102Y

NOTE: Students may count only one of POL209Y or POL317Y as MGT courses if both have been taken.

MGT222H Financial Reporting

Issues in financial accounting and reporting will be examined. The role of financial accounting in a market economy will be studied. The course will provide students with the analytical tools necessary to indicate the effects of differences in accounting procedures and their effects on the financial statements of the firm. Not intended for students concentrating in accounting. [26L, 13P]

Exclusion: MGT121H

Prerequisite: MGT120H

MGT223H Management Accounting I

Basic understanding of cost accounting. Topics include cost classification and behaviour, use of cost data in cost-volume-profit analysis, costing systems, cost control through standards and variance analysis and using cost data to make business decisions. Changes in the manufacturing process and environment will be incorporated. Computer applications are used where appropriate. [26L]

Exclusion: MGT221H/220Y

Recommended Preparation: MGT120H

MGT224H Financial Accounting Theory & Policy I

Examines theory underlying financial reporting practices, including the development of conceptual frameworks and accounting measurement models. Accounting policy issues surrounding measurement and disclosure are also discussed. Extensive use is made of existing accounting pronouncements (such as those in the *CICA Handbook* and the *FASB Concepts Series*) and of other relevant accounting literature. [26L]

Exclusion: MGT320Y

Prerequisite: MGT121H

GGR252H Marketing Geography

The problem of retail location. The spatial structure of consumer demand and retail facilities. Shopping centres and retail chains. Techniques for site selection and trade area evaluation, location strategies, retail planning. [26L, 6T]

NOTE: Counts as a 1/2 MGT credit.

PHL295H Philosophy of Business

Philosophical issues in ethics, social theory, and theories of human nature insofar as they bear on contemporary conduct of business. Issues include: Does business have moral responsibilities? Can social costs and benefits be calculated? Does modern business life determine human nature or the other way around? Do political ideas and institutions such as democracy have a role within business? [39L]

NOTE: Counts as a 1/2 MGT credit.

NOTE: To enrol in a 300 series course, students must have standing in at least 9 full courses.

MGT310Y Managerial Economics

The micro-economic tools of analysis relevant to management problems in both the private and public sectors. Topics include the nature of the firm, empirical demand and cost analysis, the economics of risk and uncertainty, the economics of information, public enterprise economics, the economics of regulation and regulatory practices in Canadian industry, transfer pricing problems, technological change and market structure. In the B.Com. programme this course qualifies as either a Management or an Economics course. [52L]

Prerequisite: ECO200Y/206Y/210Y, 220Y/227Y/STA242Y/262Y

POL317Y Introduction to Public Administration and Public Policy

Major theories and concepts in the fields of public administration and public policy, drawing on the experience of Canada and other advanced industrialized nations. [52L]

Exclusion: POL207Y

Prerequisite: POL100Y/102Y/104Y/ 203Y/205Y/209Y

NOTE: Students may count only one of POL209Y or POL317Y as MGT courses if both have been taken.

MGT321H Auditing

A study of the concepts and theory underlying audit practice. Cases are used to develop professional judgement and skills useful in practice. [26L]

Prerequisite: MGT320Y/224H, ECO220Y/227Y/STA242Y/262Y

MGT322H Financial Accounting Theory and Policy II

Examines several current measurement and disclosure issues in financial reporting. Topics include: measurement models, measuring and reporting pensions, financial reporting of corporate income taxes etc. The emphasis is on developing both professional judgement in decision-making and a defensible approach to using the authoritative and other relevant literature. [26L]

Exclusion: MGT320Y

Prerequisite: MGT224H

MGT323H Management Accounting II

General overview of the strategic planning process and, in turn, the need for a management planning and control system to be tailored to the individual organization. Specific topics dealt with include cost allocation procedures and their usefulness in decision making, performance measurement including responsibility accounting and transfer pricing, capital budgeting and information for long run decision making. Case discussions are used where appropriate. [26L]

Exclusion: MGT220Y

Prerequisite: MGT223H

MGT330H Investments

Security analysis and portfolio management. Emphasis is placed on an analysis of bonds and common stocks. [26L]

Corequisite: MGT331Y/337Y

MGT337Y Business Finance

Valuation models, cost of capital, capital budgeting, investment under uncertainty, the use of leverage, dividend policy, the financial environment within which Canadian companies operate and the characteristics of various debt and equity instruments available in the Canadian capital market. [52L]

Exclusion: MGT331Y

Prerequisite: ECO220Y/227Y/STA242Y/262Y, ECO200Y/206Y, 202Y/208Y

MGT352H Principles of Marketing

An introduction to the basic concepts of market definition, consumer behaviour, and the principal marketing functions: product line development, pricing, distribution, promotion, salesforce management, advertising, research, and planning. [26L]

Exclusion: MGT350Y, 351H

MGT353H Introduction to Marketing Management

An applications-oriented case and reading course intended to develop the analytic skills required of marketing managers. The course is designed to improve skills in analyzing marketing situations, identifying market opportunities, developing marketing strategies, making concise recommendations, and defending these recommendations. [26L]

Exclusion: MGT350Y

Prerequisite: MGT352H

MGT362H Individual and Group Behaviour in Organizations

Theoretical ideas and practical applications concerning the behaviour of individual and group behaviour in organizations. We explore relevant problems confronting management: motivation, influence, communication, supervision, decision-making, and workforce diversity. [26L]

Exclusion: WDW260Y

MGT363H Organization Design

Evolution of managerial and organization theory and practice from the classical approach of bureaucratic theory to the concepts of the organization as an open system. The managerial assumptions and implications applied to organizational problems. [26L]

Exclusion: WDW260Y

MGT371H Introduction to Business Information Systems

This course has been designed to provide students with a basic understanding of the computer systems that are so central to modern organizations. Unlike programming courses, the focus here is on the knowledge that will enable students to use computer-based systems and to participate in their development. The course covers the technology, design, and application of data processing and information systems with emphasis on managerial implications. A wide variety of applications will be studied, and students will gain experience in using a data base management system. No previous background in computing is assumed. [26L]

Exclusion: CSC340H(G)

MGT393H Legal Environment of Business I

This course has been designed to introduce commerce students to the Canadian legal system. The course deals with the impact of the Constitution Act and Charter of Rights on business entities, the structure of the Canadian court system, the various elements of contract law and the law of negligence. [26L]

Exclusion: MGT392Y

MGT394H Legal Environment of Business II

This course builds on the legal principles developed in Legal I and canvasses other areas of law that impact a business entity. The course deals with the Sales of Goods Act and relevant consumer protection legislation, employment law, environmental law, the Personal Property Security Act and the rights of the secured creditor, and basic corporate and partnership law. [26L]

Exclusion: MGT392Y

Prerequisite: MGT393H

NOTE: To enrol in a 400 series course a student must have standing in at least 14 full courses.

MGT401H/402H Supervised Reading Course on an Approved Subject

Open when a faculty member is willing and able to supervise. Students must obtain the approval of the Director of Commerce and the supervising faculty member before enrolling.

Prerequisite: Cumulative GPA of at least 2.70

MGT423H Canadian Income Taxation I

This is the first of two introductory courses in federal income tax law. It is designed to give the student a basic understanding of the Income Tax Act and its administration. This is achieved by applying the law to practical problems and case settings. Topics covered include: residence, employment income, business and property income, computation of tax for individual rights and obligations under the Act. [26L]

Exclusion: MGT423Y

MGT425H Current Accounting Issues II
A review and analysis of contemporary and controversial issues in accounting theory and practice. The study of accounting issues in various industries or the public sector, e.g. non-profit accounting, accounting for financial institutions, the resource sector, real estate, and social responsibility accounting. [26S]
Exclusion: MGT420Y
Prerequisite: MGT320Y/322H with a C standing.

MGT426H Advanced Accounting
Consideration of accounting practice in the context of accounting theory and concepts of a number of areas including intercorporate investments, foreign currency translation, deferred taxes, accounting for general purchasing power, and current value accounting. [26L]
Prerequisite: MGT320Y/322H with at least a C-

MGT428H Management Control
The case method will be used to provide an understanding of the issues and environment of management control, and will integrate material from other courses in Commerce and Economics in the solution of problems in systems design and operation. [26S]
Prerequisite: MGT220Y/323H with at least a C standing.

MGT429H Canadian Income Taxation II
This is the second of two introductory courses in federal income tax law. It is designed to give the student an understanding of more complex issues of Canadian Income Tax law and tax planning. This is achieved through a combination of lectures and the application of the law to practical problems and case settings. Topics include computation of corporate taxes, integration, corporate reorganizations, surplus distributions, partnerships, trusts, individual and corporate tax planning. [26L]
Exclusion: MGT423Y
Prerequisite: MGT423H

MGT431H Advanced Topics In Finance
The areas of concentration will depend on the particular instructor teaching the course and may focus on financing problems in either the private or public sectors [26L]
Prerequisite: MGT337Y

MGT452H Advanced Marketing Management
The emphasis in this course is on marketing decision making in a dynamic environment. Building on the concepts and skills developed in COM353H, the course focuses on the major decisions facing marketing managers in the attempt to harmonize the resources of the organization with the opportunities in the market.[26S]
Prerequisite: MGT353H/350Y

MGT453H Marketing Research
Marketing research is studied from the perspective of the marketing manager. The course focuses on the initiation, design, and interpretation of research as an aid to marketing decision making. Case studies and projects are used to provide students with some practical research experiences. [26L]
Prerequisite: MGT353H,ECO220Y/227Y/STA242Y/262Y

MGT454H Special Topics in Marketing
This course focuses on a specific theoretical or functional area of marketing. The area of concentration depends on the instructor. Examples of areas that may be covered include current issues in Consumer Behaviour, Advertising, Industrial Marketing, or Retailing. [26L]
Prerequisite: MGT353H

MGT491H Introduction to International Business
Focuses on developing an understanding of the fundamental of doing business in an international environment. Based on the application of international economic theory, (trade theory, foreign exchange, foreign direct investment, theory of the multinational) to the decision problems of managers operating in the international arena. [26L]

MGT492H Management Policy and Strategy
Focuses on the fundamentals of strategic management-the determination of the goals and objectives of a business, development of strategies to achieve these objectives and the adoption of courses of action and the allocation of resources to implement these strategies. Strategy formulation is based on an understanding of the nature of the competitive forces in industry. [26L]
Prerequisite: MGT337Y,353H

J. Alexander, B.Sc., M.Sc., M.A.
 J. Bland, B.Sc., Ph.D.
 P.H.H. Fantham, M.A., D.Phil.
 D. Geddes, B.A.
 I.R. Graham, B.Sc., Ph.D.
 A. Igelfeld, B.Sc.
 H. Joshi, M.Sc., Ph.D.
 R.A. Mathon, Dipl. Ing., M.Sc., Ph.D.
 M. Spivakovsky, B.Sc., Ph.D.
 F.D. Tall, A.B., Ph.D.
 S. Tanny, B.Sc., Ph.D.
 W.A.R. Weiss, B.Sc., M.Sc., Ph.D.

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 Faculty Advisor:* Professor P.H.H. Fantham
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 Tuesday and Thursday

Most students are involved with mathematics through service courses. Of these, MAT112Y, 132Y, 222H are the basic ones and are designed to aid courses (from various departments) in which a general mathematical background is all that is required.

NOTE: MAT112Y/132Y are alternatives to each other and are equivalent as prerequisites.

MAT212H, 232H are more technical and are aimed mainly at those Natural Sciences students requiring techniques involving partial differentiation and differential equations.

All other courses are in some way connected with the Major and Specialist programmes. Students wishing to do such a programme should begin with MAT138Y (instead of MAT112Y or 132Y) which is partly a service course, since students in certain other programmes are encouraged to take it.

(Those students who begin with MAT112Y or MAT132Y and then decide on a programme that requires MAT138Y can fulfill the obligations by taking MAT232H as a supplement.)

MAT258Y and, to a lesser extent, MAT311H, 334H are also used in other science programmes, whereas MAT104H, 309H are used for certain Philosophy programmes. (In any programme, PHL245H can replace MAT104H).

The remaining courses are aimed at students primarily interested in mathematics (although all others are welcome). The earliest of these are MAT108H, 248Y. Whereas the content in these two courses (as also in the service courses) is principally manipulative in form (coming from the 18th and 19th centuries), subsequent material becomes more conceptual (and hence abstract) and, for this reason, the core courses at this stage are MAT378H, 388H which take up abstraction for its own sake. These are required for the later courses.

Mathematical Sciences Specialist students are especially encouraged to take the 400-level Problems courses.

Anyone wishing to take a mathematics course on the St. George or Scarborough campus should check with the Faculty Adviser concerning possible exclusions.

MAT104H Symbolic Logic

Propositional calculus. Predicate calculus. The aims of the course are to develop a clear understanding of logical concepts and to acquaint students with proof techniques. (Of general interest). [26L, 13T]

Exclusion: PHL245H

MAT108H Introduction to Number Theory

Elementary topics in number theory. (Of interest to serious students). [26L, 13T]
Prerequisite: O.A.C. Calculus, Algebra and Geometry

MAT112Y Calculus

Review of precalculus material including trigonometric and logarithmic functions. Techniques of differentiation and integration. Calculation of limits. Related rates. Extreme values. Graph Sketching. Applications of calculus. Introduction to sequences and series. (For students without O.A.C. Calculus, or equivalent, in the last three years.) [26L, 78T]

Exclusion: O.A.C. Calculus (unless with permission of instructor), MAT132Y, 138Y

Prerequisite: Grade 12 Mathematics or permission of instructor

NOTE: MAT112Y contains one more contact hour per week than MAT132Y because it covers more material, including that of OAC Calculus. A completed MAT112Y is equivalent to MAT132Y for all purposes.

MAT132Y Calculus

Techniques of differentiation and integration. Calculation of limits. Related rates. Extreme values. Graph sketching. Applications of calculus. Sequences and series. (Primarily intended for non-specialists). [52L, 26T]

Exclusion: MAT112Y, 138Y

Prerequisite: O.A.C. Calculus

MAT138Y Calculus

Derivatives, integrals, the fundamental theorem, improper integrals and limits. Differential and integral calculus of several variables: partial differentiation. Classification of critical points. Multiple integrals. Green's theorem and related topics. (For students with an interest in mathematics.)

Exclusion: MAT112Y/132Y

Prerequisite: O.A.C. Calculus, Algebra and Geometry

MAT212H Short Course in Differential Equations

Ordinary differential equations. Emphasis throughout on applications. (Suitable for non-specialists). [26L, 13T]

Exclusion: MAT251Y/258Y

Prerequisite: MAT132Y/138Y

MAT222H Short Course in Linear Algebra (Formerly MAT228H)

Matrices, linear transformations, systems of linear equations, determinants, canonical forms, applications. (Of general interest). [26L, 13T]

Exclusion: MAT223H(G)/225Y/229H/248Y

Prerequisite: MAT112Y/one O.A.C.

Mathematics (or permission of instructor).

MAT232H Short Course in Calculus of Several Variables

Differential and integral calculus of several variables: partial differentiation, chain rule, Taylor series and classification of critical points. Multiple integrals, Green's theorem and related topics. (Suitable for non-specialists). [26L, 13T]

Exclusion: MAT138Y/230Y/234Y/235Y/238Y/239Y(G)/250Y

Prerequisite: MAT132Y/138Y

MAT248Y Linear Algebra and Linear Programming

Basis and dimension, quotient spaces, abstract linear transformations, matrices and changes of basis, dual spaces, determinants, linear equations, eigenvectors, inner product spaces, reduction of normal matrices, quadratic forms. Linear programming. Applications. [52L, 26T]

Prerequisite: MAT138Y/(132Y,232H)

MAT258Y Differential Equations

(Formerly MAT251Y)

A rigorous treatment of sequences and series:

Convergence tests, power series and introduction to uniform convergence.

Ordinary differential equations of the first order. Higher order linear differential equations and systems, series solutions, Laplace transform.

Prerequisite: MAT138Y (C or better)/232H (B or better).

MAT309H Introduction to Mathematical Logic

The nature of axioms, proofs and consistency including the completeness of the predicate calculus. Introduction to the theory of recursive functions. Gödel's incompleteness theorems and related results [39L]

Exclusion: CSC438H

Prerequisite: MAT104H/PHL245H, MAT138Y,222H

MAT311H Partial Differential Equations

Partial differential equations of applied mathematics, mathematical models of physical phenomena, basic methodology. [26L, 13T]

Exclusion: MAT351Y

Prerequisite: MAT138Y/232H,212H/258Y

MAT334H Complex Variables

Theory of functions of one complex variable: analytic and meromorphic functions; Cauchy's theorem, residue calculus. Topics from: conformal mappings, analytic continuation, harmonic functions. [39L]

Prerequisite: MAT138Y/232H,212H/258Y

MAT368H Vector Calculus

The implicit function theorem, vector fields.

Transformations. Parametrized integrals.

Line, surface and volume integrals.

Theorems of Gauss and Stokes. [39L]

Prerequisite: MAT138Y (C or better)/232H (B or better)

MAT378H Foundations of Analysis I

Sets: functions, equivalence relations, quotients, products. Structures on a set, isomorphism. Order relations, sets with an operation. Axiom of infinity: natural numbers, finite and infinite sets. Integers, rational numbers and real numbers. Problems. (This course emphasizes abstraction and rigour). [39L]

Prerequisite: MAT248Y,258Y

MAT388H Foundations of Analysis II

Real numbers: sup and inf, arithmetical and power operations. Complex numbers. Fundamental theorems of analysis: Cauchy sequences, topological properties. Problems. (This course emphasizes abstraction and rigour). [39L]

Prerequisite: MAT378F

MAT408H Philosophy of Mathematics

(Formerly MAT308H)

The origins of arithmetic, geometry and algebra. (This course is, at basis, concerned with historical matters but is illustrated for the most part through mathematical exercises. Required work will be through problems rather than essays). [39L]

Prerequisite: Any third year MAT course or equivalent.

Offered in alternate years.

MAT428H Introduction to Differential Geometry

(Formerly MAT328H)

Curves in R^2 and R^3 : arc length, curvature, torsion, Hopf's theorem, Frenet's equations. Surfaces in R^3 : first and second fundamental forms, Gauss curvature and mean curvature, the Bonnet immersion theorem. [39L]

Prerequisite: MAT238Y/248Y/368H

Offered in alternate years.

MAT448H Abstract Algebra

(Formerly MAT348H)

Introduction to groups, rings, and fields. [39L]

Prerequisite: MAT108H/228H/248Y, 378H

Offered in alternate years.

MAT488H Problems and Readings in Analysis

Individual work supervised by a faculty member.

Prerequisite: Permission of the Department

MAT498H Problems and Readings in Algebra and Geometry

Private study supervised by a faculty member.

Prerequisite: Permission of the Department

Professor Emeritus

W.J. Huggett, B.A., M.A., Ph.D.

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J. Brunning, B.A., M.A., Ph.D.

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A. Gombay, LésL, B.A., M.A., B.Phil.

J.J. Hartley, B.Ph., B.A., M.A., Ph.D.

B.D. Katz, B.A., M.A., Ph.D.

M. Kusch, Mag., Lic., Ph.D.

C. Misek, B.A., M.A., D.Phil.

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J. Porteous, B.A., M.A., Ph.D.

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The Greek words from which "philosophy" is formed mean "love of wisdom" and all great philosophers have been moved by an intense devotion to the search for wisdom. What distinguishes philosophy from the physical and social sciences is its concern not only with the truths which are discovered by means of specialized methods of investigation, but with the implications such discoveries have for human beings in their relations with one another and the world. Moreover, philosophy has an abiding interest in those basic assumptions about the nature of the physical and social world, and about the nature of inquiry itself, which underlie the methodology by means of which scientists seek to explain their observations. Philosophy examines the grounds for those beliefs which make up people's fundamental views of the world. Here are a few fundamental beliefs, some held by some people, some by others: "Telling lies is always wrong", "Some things can never be known", "The material world is all that exists", "What is right or wrong depends entirely on one's society or culture", "People are inherently selfish", "Life must have a transcendent purpose". There are many other similar beliefs which deeply affect the way we think and live. Philosophers discuss them as thoroughly and systematically as possible. The Philosophy Department offers courses which study basic works of famous philosophers of the past taken in their historical settings, and it offers courses in which students are trained to think critically about philosophical issues themselves. A glance through the courses offered in Philosophy will inform any prospective student of the names of philosophers studied, and the special areas investigated in the Philosophy programmes at the University of Toronto. A dictionary or encyclopedia will supply the standard definition of logic, ethics,

epistemology, and metaphysics. But one who wants to know what philosophy is must do it. A student can learn a great deal from a study of what has been written by the great philosophers through history. But such study is only an important preliminary. To read without bold and critical thinking is next to useless. Some students may not wish to undertake more than a few courses in philosophy to supplement their work in other fields. They may make a free choice among the courses offered by the Department. The only restrictions are that they take no more than one 100 level course and that 300 and 400 level courses presuppose previous work in philosophy. Courses at the 200 level are open to all students who have completed at least four full courses and to those with fewer than four full courses completed who are taking (or have taken) a 100 series course in philosophy. Many students will find that their interests embrace philosophy and some other subject. The Philosophy Department has joint programmes with various departments. Other students will find that their primary interest is in philosophy. The Specialist Programme is designed for such students. Its completion may be a step toward graduate study in philosophy, or it can lead in other directions; law, journalism, education, theology, and politics are some possibilities. It cannot be stressed too strongly, however, that one of the chief rewards of studying philosophy must always be intrinsic to the subject itself.

ERINDALE PHILOSOPHY HANDBOOK.

Because of space and time restrictions, the Calendar gives only brief and abstract descriptions of courses. The Philosophy Handbook, which is produced in the Spring, gives detailed information on course outlines, requirements, readings, instructors, time-tabling, etc. It is available at the Philosophy Department, Room 227 North Building, phone 828-3724, or will be mailed on request. It is an essential supplement to the Calendar and students are urged to consult it.

The Philosophy Discipline Representative and staff will be glad to offer advice and assistance. To arrange for counselling by a faculty member, phone 828-3755.

PHL100Y Logic, Knowledge, and Reality
An introduction to philosophy, emphasizing logic, theory of knowledge, and metaphysics. Elementary techniques of modern symbolic logic and problems in inductive logic and probability. What can be known with certainty? What is reality? Are there limits to knowledge? [78L]

Exclusion: PHL101Y, 102Y, PHI103Y(G), 104Y(G), 105Y(G)

PHL101Y Mind, Value and Religion
An introduction to philosophy, stressing conceptions of human nature and of the good life. The religious dimension of life; arguments for the existence of God; free will; mind and body in relation to the scientific image of human nature; the rational foundation for morality; the relation of individual to state; authority, liberty, and justice. [78L]

Exclusion: PHL100Y, 102Y, PHI103Y(G), 104Y(G), 105Y(G)

NOTE: All 200 series courses, with the exception of PHL245H, have the prerequisite that the student have completed at least four full courses (or the equivalent) at the University. This prerequisite is waived for students who are taking (or have taken) a 100 series course in Philosophy. There are no other prerequisites for any 200 series courses.

PHL200Y Birth of Western Philosophy
Classical doctrines of Plato and Aristotle concerning the universe and God, human knowledge and logic, soul and body, moral values and the good life. Plato's predecessors, the pre-Socratics and Socrates, and post-Aristotelian developments in Stoicism, Epicureanism and neo-Platonism. [78L]

Exclusion: CLA200Y

Recommended Preparation: PHL100Y/101Y

PHL210Y 17th and 18th Century Philosophy

Classic texts by European philosophers (e.g., Hobbes, Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, and Kant). Their attitudes toward science and religion, and their theories about the nature of the world and of human knowledge, culminating in the "Copernican Revolution" of Kant. [78L]

Recommended Preparation: PHL100Y/101Y

PHL220H Introduction to Existentialism
Human perception and knowledge of reality; freedom and the meaning of human life; sexuality and the body. Authoris include Heidegger, Buber, Marcel, Camus, Sartre, de Beauvoir, Merleau-Ponty. [39L]

PHL228H American Philosophy
Philosophy in the United States since colonial days. Emphasis on Transcendentalism (Emerson, Thoreau) and Pragmatism (Peirce, James, Dewey). [26L, 13T]

PHL235H Philosophy of Religion

The nature of religion; religious faith; arguments for God's existence; religious experience; religion and human autonomy; the problem of evil; religious and atheistic existentialism. [39L]

PHL241H Philosophy of the Emotions

Typical problems studied: Can emotions be assessed as rational or irrational? Do we have immediate knowledge of our emotions? Are emotions right or wrong in themselves? Are we responsible for them? How do our socialized emotional repertoires condition our conception of ourselves, including our gender identity? Do they encourage harmful stereotypes? [39L]

PHL243H Philosophy of Human Sexuality

Philosophical issues about sex and sexual identity in the light of biological, psychological, and ethical theories of sex and gender. The concept of gender; male and female sex roles; theories of psycho-sexual development; sexual morality; "natural", "normal" and "perverse" sex; sexual liberation; love and sexuality. [39L]

PHL244H Human Nature

Theories of human nature, e.g., psycho-analysis, behaviourism, sociobiology. Current issues, e.g., egoism and altruism, instincts, I.Q., rationality, sanity and mental illness. [39L]

PHL245H Modern Symbolic Logic

The application of symbolic techniques to the assessment of arguments. Propositional calculus and quantification theory. Logical concepts; techniques of natural deduction. [39L]
Exclusion: MAT104H

PHL246H Probability and Inductive Logic

The elements of axiomatic probability theory, and its main interpretations (frequency, logical, subjective). Reasoning with probabilities in decision making and science. [39L]

Recommended Preparation: PHL100Y/ 245H

PHL247H Rhetoric and Reasoning

The area of informal logic-the logic of ordinary language, usually non-deductive. Criteria for the critical assessment of arguments as strong or merely persuasive. Different types of argument and techniques of refutation; their use and abuse. [39L]
Exclusion: TRN200H

PHL255H Science and Pseudo-Science

An examination of (e.g.) ESP, astrology, race and I.Q., scientific creationism, psychoanalysis, sociobiology; the principles of good science as opposed to pseudo-science, especially in "borderline" cases; misuses of science. [39L]

PHL267H Feminism

Main types of feminist theory: liberal, Marxist, Existential and "Radical". A number of ethical, political and psychological issues are considered. [39L]

PHL271H Ethics and the Law

Moral issues in the law, such as civil liberties and police powers, censorship, civil disobedience, the death penalty, inequality, paternalism, and the constitutional protection of human rights. Case studies from Canadian law. [39L]

PHL272H Philosophy of Education

The nature, aims, and content of education; learning theory; education and indoctrination; the teaching of morals and the morality of teaching; the role and justification of educational institutions, their relation to society and to individual goals; authority and freedom in the school. [39L]

PHL274H Contemporary Social Issues

Against the background of some major social and political theories, this course will explore such practical problems as nationalism, racism, sexism, inequality, revolution, and political radicalism. [39L]

PHL277Y Moral, Social, and Political Philosophy

A survey of some major moral and political theories, e.g., utilitarianism, rights theory. A study of central issues in moral philosophy, e.g., moral relativism, the nature and limits of moral responsibility, self-interest and morality, and central issues in social and political philosophy, e.g., anarchy and the legitimacy of the state, the evaluation of forms of government, civil disobedience and revolution. [78L]

Exclusion: PHL265H, 275H, 276Y

Recommended Preparation: PHL100Y/ 101Y

PHL281H Morality, Medicine, and the Law

Moral implications of recent developments in medicine and the life sciences; related legal and social issues. Euthanasia, health care priorities, abortion, fertility control, against the background of some major ethical theories. [39L]

PHL285H Aesthetics

Some central areas in philosophy of art such as the nature of a work of art; definitions and theories of arts, aesthetic experience, perception and sensibility; objectivity in criticism; standards of taste or evaluation. [39L]

PHL288H Literature and Philosophy

The literary expression of philosophical ideas and the interplay between literature and philosophy. [39L]

PHL290H Psychoanalysis

An introduction to dream psychology, the psychology of errors, instinct theory, mechanisms of defence, the structure of personality. Philosophical topics include: freedom and determinism, consciousness, the nature of conscience, the status of psychoanalysis. [39L]

PHL295H Philosophy of Business

Philosophical issues in ethics, social theory, and theories of human nature insofar as they bear on contemporary conduct of business. Issues include: Does business have moral responsibilities? Can social costs and benefits be calculated? Does modern business life determine human nature or the other way around? Do political ideas and institutions such as democracy have a role within business? [39L]

NOTE: All 300 series courses, with the exception of PHL 344H-347H, have a prerequisite of three half-courses (or the equivalent) in Philosophy. It is strongly recommended that students prepare for 300 series courses by taking two of the following: PHL100Y/101Y, 200Y, 210Y, 245H, 277Y. Some 300 series courses have specific prerequisites or recommended preparation, as described below. Students who do not meet the prerequisite for a particular course but believe that they have adequate preparation should consult the instructor concerning entry to the course.

PHL300H Topics in Ancient Philosophy

A study of some topic or thinker in the ancient period. [26S]

Recommended Preparation: PHL200Y/ 210Y

PHL307H Topics in Mediaeval Philosophy

A study of some of the principal figures and intellectual problems in the period from the first century to the sixteenth. Figures such as Philo, Augustine, Abelard, Avicenna, Maimonides, Aquinas, Duns Scotus, Ockham and Suarez will be studied on topics in metaphysics, epistemology, ethics and philosophy of nature. [26S]

Exclusion: PHI205Y(G)

Recommended Preparation: PHL200Y/ 210Y

PHL309H Topics in Modern Philosophy

A study of some topic or thinker in the modern period. [26S]

Exclusion: PHL310H(G), PHL311H(G)

Recommended Preparation: PHL200Y/ 210Y

PHL312H Kant

A systematic study of *The Critique of Pure Reason*. [26S]

Recommended Preparation: PHL210Y/ 309H

PHL317H Topics in Nineteenth Century Philosophy

A study of some topic or thinker in the 19th century. [26S]

Exclusion: PHL315H(G), 316H(G)

Recommended Preparation: PHL210Y/ 309H/312H

PHL324H The Continental Tradition

A study of some of the principal figures and intellectual problems in twentieth-century existentialism and phenomenology. [26S]

Exclusion: PHL320H(G), 321H(G)

Recommended Preparation: PHL210Y/309H/ 312H/317H

PHL325H The Analytic Tradition

Analytic philosophy up to 1945. Authors include Frege, Russell, Moore, Wittgenstein, and logical positivists such as Ayer. [26S]

Recommended Preparation: PHL245H

PHL330Y Metaphysics and Epistemology

Historical and systematic approaches.

Principal issues include: the nature of reality, substance and existence, necessity and the *a priori*, truth, knowledge and belief, perception, causality. [52L]

PHL332H Issues in Metaphysics

Typical problems: ontological categories; ontological commitment; the objectivity of space and time: causality and determinism; mind and body. [26S]

Exclusion: PHL330Y(G)

PHL333H Issues in Epistemology

Typical problems: knowledge and belief, perception, the analytic-synthetic distinction, theories of truth, necessity and the *a priori*. [26S]

Exclusion: PHL330Y(G)

PHL340H Issues in Philosophy of Mind

Typical problems: the brain-mind identity theory; intentionality and the mental; personal identity; the nature of human action. [26S]

PHL341H Freedom, Responsibility, and Human Action

Human action and the nature of freedom and responsibility in the light of contemporary knowledge concerning the causation of behaviour. [26S]

PHL342H Minds and Machines

(Formerly PHL242H)

Can machines think and feel? Are human beings simply very complicated organic machines? These questions are discussed in the light of recent work on the simulation of intelligence and purposive behaviour. [39L]

PHL344H Metalogic

Soundness and completeness of propositional and quantificational logic, undecidability of quantificational logic, and other metalogical topics. [39L]

Exclusion: MAT304H

Prerequisite: PHL345H and one full course equivalent in PHL/MAT/CSC

PHL345H Intermediate Logic

A sequel to PHL245H, developing skills in quantificational logic and treating of definite descriptions. The system developed will be used to study a selection of the following topics: philosophical uses of logic, formal systems, set theory, non-classical logics, and metalogic. [39L]

Prerequisite: PHL245H and one full course equivalent in PHL/MAT/CSC

PHL346H Philosophy of Logic and Mathematics

Platonism versus nominalism, the relation between logic and mathematics, implications of Godel's and Church's theorems, counterfactuals, necessity and possibility, extensional and intensional contexts, intuitionism. [26S]

Exclusion: MAT308H

Prerequisite: PHL245H/MAT104H and one full course equivalent in PHL/MAT/CSC

PHL347H Many-Valued and Modal Logics

Many-valued and modal propositional logics and their interrelations; logical matrices and possible-world semantics; problems of interpretation and philosophical applications. [39L]

Exclusion: MAT312H

Prerequisite: PHL245H and one full course equivalent in PHL/MAT/CSC

Recommended Preparation: PHL345H

PHL350H Philosophy and Theories of Language

The claims of logical positivism, ordinary language philosophy, structuralism, or generative linguistics about the importance of language for philosophy; hypotheses about mind, metaphysics, and meaning. [26S]

Recommended Preparation: PHL245H

PHL351H Language and Logic

The sense - reference distinction; the theory of descriptions; model languages, the relation between theory of truth and theory of meaning, the semantics of modal notions.

Readings include Frege and Russell. [26S]

Prerequisite: PHL345H and one full course equivalent in PHL/MAT/CSC

PHL355H Philosophy of Science

(Formerly PHL356H)

An investigation of the structure and methods of natural science and social science. Topics include: explanation, methodology, realism and objectivity, and the structure of theories such as relativity, Freudianism, or evolution. [26S]

Exclusion: PHL356H

Recommended Preparation: PHL245H

PHL365H Contemporary Political Philosophy

A study of some of the best recent work by political philosophers on topics such as justice, rights, welfare, and political authority. [26S]

Recommended Preparation: PHL277Y

PHL370H Issues in Philosophy of Law

Major issues in philosophy of law, e.g., responsibility and punishment, the obligation to obey the law, legal positivism, law and morality. [26S]

Recommended Preparation: PHL271H/ 277Y

PHL375H Contemporary Moral Philosophy

A study of some of the best recent work by moral philosophers on topics such as the objectivity of values, rights and duties, utilitarianism, and the nature of moral judgments. [26S]

Recommended Preparation: PHL277Y

PHL395H Special Seminar in The History of Philosophy

An intensive study of some historical figure, theme or period. Topic to vary from year to year. [26S]

NOTE: Prerequisite for all 400 series courses is permission of the instructor. This will normally be given only where nine half-courses (or the equivalent) in Philosophy have been completed.

PHL495H Senior Seminar in Philosophy

A seminar for advanced students in Specialist and Major Programmes in Philosophy. Topic to vary from year to year. [26S]

PHL496H/497H/498H/499H Individual Studies

PHYSICS

R.E. Azuma, B.A., M.A., Ph.D.
R.F. Code, B.Sc., A.M., Ph.D.
D.J. Dunlop, B.A.Sc., M.A., Ph.D., F.R.S.C.
R.M. Farquhar, B.A., M.A., Ph.D., F.R.S.C.
K.M. Hughes, B.Sc., M.Sc., Ph.D.
G.W.K. Moore, B.Sc., Ph.D.
L. Royer, B.Sc., Ph.D.
H.W. Taylor, B.Sc., M.Sc., Ph.D., C. Phys.,
F.Inst.P., F.I.Nuc.E.
S.S.M. Wong, B.A., M.S., Ph.D.

*Discipline Representative and
Faculty Advisor:* Professor R.M. Farquhar
828-3829

Physics was born of a desire to understand nature in a quantitative way. Guided by experiment and intuition, physicists arrive at mathematical relationships among various quantities. These relationships are then tested experimentally and extended by further research. The physics courses offered at Erindale are designed to help students both to understand and to use the concepts and relationships which have been developed, and to appreciate the need for continual questioning of scientific theories. The non-science student should gain insight into the nature of scientific investigation, while the student whose interest is in sciences other than physics should acquire a background knowledge leading to a deeper understanding of his or her own discipline. Physics courses at Erindale cover material for the first part of the specialist degree as well as for the major degree. The present programme in Physics at Erindale College employs the most up-to-date demonstration apparatus and undergraduate facilities. Students can make some choices between courses emphasizing quantum physics, classical physics, physics of the earth, and applications of physics to the life sciences.

Students wishing to specialize in physics as a first step toward graduate studies in physics should consult a physics professor. The physics specialist programme requires students to demonstrate a very high level of achievement in mathematics and physics. Students should also note that many courses required for the final part of the Erindale physics specialist programme are offered only on the St. George Campus of the University of Toronto.

Recommended First-Year Programme:

- i) For science and physics specialists
PHY140Y, MAT138Y, (MAT112Y/132Y may be acceptable for some programmes) MAT222H (for Specialist programme).
- ii) For general interest, pre-meds, etc.
PHY135Y, MAT112Y/132Y/138Y.

Second Course in Physics:
PHY235H is recommended for students in Biology. PHY224H and PHY240Y are recommended for students in Surveying Science, and, in general, anyone who wishes second courses in Physics.

PHY135Y General Physics

Recommended for students interested in a general survey course in physics, who may intend to pursue a major degree program in chemistry, biology, or mathematics. This course is an overview of some of the fundamental concepts, including vector kinematics; force, torque; linear and angular momentum, rotational motion; work and energy; oscillatory motion; introductory electricity and magnetism; optics; relativity; blackbody radiation; quantum phenomena and nuclear physics; introductory thermodynamics. [78L, 39P, 26T]

NOTE: Students lacking Grade 13 Physics/OAC may enrol in this course with the permission of the instructor.

Exclusion: PHY120Y/132Y/140Y

Prerequisite: Grade 13 Physics/OAC Physics, C/Calc, A/A&G or R&F/FM

Corequisite: MAT112Y/132Y/138Y

PHY140Y Principles of Physics

Recommended for all students who wish to become professional scientists, including students in Surveying Science. It is also the first course in the Physics Specialist Programme. Emphasis is placed on methods of constructing appropriate physical models and the development of problem solving skills. Topics include: Newtonian mechanics; special relativity; gravitational, electric and magnetic forces and fields; rigid body rotation; properties of materials; harmonic vibrations; propagation and reflection of mechanical waves; thermal physics; light; the breakdown of classical physics; introduction to quantum physics. [78L, 39P, 26T].

Exclusion: PHY120Y/132Y/135Y

Prerequisite: Grade 13 Physics/OAC Physics C/Calc, A/A&G (recommended) or R&F/FM
Corequisite: MAT(112Y, 232H)/(132Y, 232H)/138Y (preferred); MAT222H (recommended).

Recommended Preparation: Students should have good standing in all prerequisites

PHY224H Techniques of Physical Measurement

A course designed to familiarize students with some of the basic laboratory measurement techniques used in pure and applied physics. During this course, students will apply these techniques to experiments in a number of different fields in physics. [26L, 78P]

Prerequisite: PHY132Y/135Y/140Y/
CHM150Y

Corequisite: Any 200 level PHY course

PHY235H Introduction to Biophysics

An introduction to some applications of physics to medicine and biology for students in biochemistry, cell and molecular biology.

Topics include: electron and optical microscopy; quantum limits to vision; electrical conductivity of nerve fibres; electrocardiograms; noninvasive imaging techniques, including ultrasound and magnetic resonance; molecular transport and diffusion across membranes; an introduction to nuclear medicine, radioactive tracer techniques, and dosimetry. [26L, 13T]
Prerequisite: PHY120Y/132Y/135Y/140Y, MAT112Y/132Y/138Y

PHY240Y Electromagnetism

An introductory course in electricity, magnetism, and waves. Topics include: Coulomb's Law, Gauss's Law and electrostatics; conductors; DC circuits and applications; magnetostatics; dielectric and magnetic media; time varying fields; Faraday's Law; AC circuits and resonance, complex notation for currents, mutual inductance; introduction to Maxwell's equations and electromagnetic wave equations; electromagnetic waves in materials; the wave impedance; the Poynting Vector; wave polarizations; reflection and transmission of waves at interfaces. Vector analysis will be introduced as required and a working knowledge of calculus and elementary differential equations is assumed. [52L, 26T]

Exclusions: PHY218H, 221H

Prerequisite: PHY(132Y/135Y, with minimum of 70%, or P.I.)/140Y, MAT(112Y, 232H)/(132Y, 232H)/138Y

Recommended Preparation: MAT222H.

PHY245H, taken contemporaneously, is an asset

PHY245H Mathematical Methods for the Analysis of Vibrations, Waves and Classical Dynamics

An introduction to the mathematical methods used to analyse vibrating systems, wave motion, and classical dynamics. The physical processes discussed are: simple and coupled oscillations, dispersion relations and group velocity in progressive waves, reflection, interference and diffraction. The mathematical tools include: matrix diagonalization, eigen value problems, complex numbers, Fourier series and transforms, delta function, Bessel functions and partial differential equations. [26S, 13T]

Prerequisite: PHY132Y/135Y/140Y, MAT(112Y, 232H)/(132Y, 232H)/138Y

PHY257H Introduction to Quantum Physics

A first course covering the development of basic concepts of quantum physics. Topics include: historical experiments, the particle nature of light and wave nature of matter (De Broglie), wave-particle duality, the Schrödinger equation with several basic solutions, such as the square potential well, harmonic oscillator, one-electron atom, and barrier potentials. [26L, 13T]

Prerequisite: PHY132Y/135Y (minimum of 70% or P.I.)/140Y, MAT(112Y, 232H)/(132Y, 232H)/138Y.

Corequisite: MAT212H/MAT258Y

Recommended Preparation: MAT222H.

PHY245H, taken contemporaneously, is an asset

PHY258H Introduction to Statistical Physics

A course designed to introduce students to the ideas of statistical behaviour of physical systems with large numbers of degrees of freedom. Macroscopic concepts such as temperature and entropy will be related to the motion of individual particles. Ensembles and ensemble averages, classical and quantum statistics, kinetic theory and transport phenomena, as well as phase transitions will be discussed. [26L, 13T]

Prerequisite: PHY257H

Recommended Preparation: MAT222H.

MAT368H, PHY245H, are assets

PHY323H/324H Quantum Physics Laboratory

An introduction to modern physics through a set of selected experiments. Topics include: laser physics, optical interferometers, atomic spectroscopy, microwave optics, absorption of gamma rays, nuclear coincidence counting, gamma ray spectroscopy, X-ray quantum physics, nuclear magnetic resonance, field emission of electrons. [78P]

Exclusion: PHY325Y, 326H

NOTE: Students with strong interests in experimental physics are encouraged to take PHY323H and 324H.

PHY337H An Introduction to Environmental Physics

A broad introduction to the physical processes pertinent to a discussion of environmental issues. The flow of fluids through porous media with applications to the problem of ground water contamination. The physics of atmospheric motion and the long-range transport of pollutants. The use of radioactive nuclei as natural tracers. Radiative transfer and the greenhouse effect. Plate tectonics and volcanism. The use of satellites in remote sensing and in the detection of climate change. [26L]

Prerequisite: PHY135Y/140Y, MAT112Y/132Y/138Y

NOTE: not offered in 1992-93

PHY341H Electromagnetic Radiation and Matter

An overview of the theory of electromagnetic fields and radiation, together with selected applications. A knowledge of electrostatics, magnetostatics, and the derivation and interpretation of Maxwell's equations is assumed. Topics include: propagating, non-propagating and guided waves; interactions with dielectric boundaries; multipole radiation fields, birefringence in non-cubic crystalline media, and simple models of optical dispersion. Selected topics such as superconductivity, relativistic effects, and optical diffraction may also be discussed. [26L,13T]

Exclusion: PHY334H

Prerequisite: PHY218H/231Y/240Y

PHY342H Applications of Quantum Theory

A continuation of the development of the basic foundations of Quantum Mechanics begun in PHY257H applied to a number of physical phenomena. Topics include the Schrodinger equation, wave packets, uncertainty principle, commutation relations, orbital and spin angular momentum, addition of angular momenta, the hydrogen atom, one-electron and multi-electron atoms, perturbation theory. [26L, 13T]

Exclusion: PHY332H

Prerequisite: PHY240Y,257H

Corequisite: MAT311H

PHY343H Classical and Continuum Mechanics

An introduction to advanced dynamical concepts including Lagrange's equations, central field problems, rotational dynamics, Hamiltonian formulation of dynamics. Problem solving will be emphasized. [26L, 13T]

Exclusion: PHY333H

Prerequisite: PHY245H (recommended), 257H, MAT212H/238Y

Corequisite: MAT311H

PHY344H Physics of the Earth

The course presents a quantitative physical description of the Earth; its dynamics, internal structure and tectonic history. Topics covered are radioactivity and radiometric dating of rocks, the Earth's rotation and dynamics of its gravitational and magnetic fields, ancient magnetic fields, and seismological evidence for the internal structure and composition of the Earth. Use is made of potential field methods and solution of partial differential equations. [26L, 13T]

Exclusion: JGP334H

Prerequisite: PHY218H/221H/240Y or P.I.

Recommended Preparation: GSC120H

PHY440H Topics in Physics

A course designed to provide students (particularly those in the Applied Physical Science Specialist programme) with an understanding of some advanced techniques used in physical methods of analysis. The topics may include, for example, nuclear radiation physics and dosimetry, nuclear magnetic resonance, lasers and laser applications, physics of magnetic materials, mass spectroscopy. [26L]

Prerequisite: (PHY257H,258H)/(CHM311H, 322H)

Corequisite: PHY323H/324H,341H

PHY470Y Introduction to Research in Physics

An experimental or theoretical research problem under the supervision of a member of the Physics staff. By special arrangement, this research problem may be started during the summer before the student enters his/her final year.

Prerequisite: Permission of Physics Faculty Advisor

PHY471Y Supervised Readings

A programme of individual study chosen by the student with the advice of, and carried out under the direction of, a staff member. A student may take advantage of this course either to specialize further in a field of interest, or to explore interdisciplinary fields not available in the regular syllabus.

Prerequisite: Permission of Physics Faculty Advisor

J. Barros, A.B., M.I.A., Ph.D.
 R.S. Beiner, B.A., D.Phil.
 A. Braun, B.A., M.A., Ph.D.
 R.B. Day, B.A., M.A., Dip. R.E.E.S., Ph.D.
 R.A. Fenn, B.A., M.Sc.(Econ.), Ph.D.
 N. Galleguillos, LL.B., M.A., Ph.D.
 R. Gregor, B.A., M.A., Ph.D.
 D. Pokorny, M.A., Ph.D.
 P. Silcox, B.A., Dipl. of Soc. Admin., M.A., Ph.D.
 J. Simeon, B.A., M.A., Ph.D.
 J.E. Smith, B.A., Ph.D.
 P. Solomon, B.A., M.A., Ph.D.
 G. White, B.A., M.A., Ph.D.
 N. Wiseman, B.A., M.A., Ph.D.
 D.A. Wolfe, B.A., M.A., Ph.D.

*Discipline Representative and
 Faculty Advisor:* Professor R. Day
 Telephone: 828-5203

When one asks after the subject-matter of botany or geography or economics, one may hope for a reasonably straightforward and uncontroversial answer. But to ask after the subject-matter of political science immediately plunges one into controversies no less deep and intractable than those that grip political life itself. What is politics? Answers range all the way from, at one extreme, Plato's "the art whose business it is to care for souls", to, at the other extreme, Harold Laswell's "who gets what, when, how". For this reason, the study of politics makes uncommon demands on one's critical faculties; in fact, it is the leading aim of political science to cultivate just this capacity for critical reflection. To be sure, the student of politics can expect to be asked to master a great mass of plain facts, with a view to explaining what makes bureaucracies work; how great powers rise and fall; what constitutes the difference between an effective public policy and a misguided one; how one designs an unbiased opinion poll; what factors shape the decision-making of statesmen; and so on. Indeed, important disciplines within political science address questions like these. But not even the greatest exertion of fact-mongering can relieve the student of the need to ponder the more far-reaching questions: Who ought to rule? What is legitimacy? Are liberty and equality compatible? How does one adjudicate between competing ideas about democracy? What are the abiding needs of human beings as such? Are we by nature political animals? In short, one cannot study the doings of citizens, public servants, and governments in abstraction from the attempts, from Plato onwards, to define the very nature of politics itself.

Perhaps it might be said that political science caters to every taste, from those preoccupied solely by the question of how one can rise to be premier of Ontario, to those whose chief longing is to glimpse the true nature of justice. Put less vulgarly, this suggests that the study of politics encompasses the entire range of human concerns in their full diversity. Aristotle went so far as to claim that political science is the "ruling science" insofar as it inquires not merely into this or that aspect of human affairs, but looks to the comprehensive order within which all human activities and practices are governed. It seems fair to say that the subsequent development of political science as an intellectual discipline has not left behind this ancient claim, but confirmed it ever anew.

It may be admitted that graduates in political science do not typically go on to become professional politicians. More frequently, they proceed to careers in law, journalism, and the civil service.

Students are urged to consult the Erindale Political Science Handbook and the Political Science Undergraduate Handbook (available in the Political Science office, Room 207 Kaneff Building), both of which are published in the Spring, for detailed information on course offerings.

Students contemplating taking either 300 or 400 series courses in Political Science at the St. George Campus are advised to consult either the Discipline Representative or the Undergraduate Secretary of the Department (978-3340) about balloting procedures.

POL100Y Introduction to Canadian Politics

A study of the political process in Canada, including Canadian political culture, the formation of public opinion, political behaviour, political parties, the constitution, federalism, French Canada, federal-provincial financial relations, and the structure and functioning of political institutions, such as the cabinet, parliament, the judiciary, and the public service. [52L, 26T]

POL200Y Political Theory

The development of political thought to the 17th century. Among the theorists examined are Plato, Aristotle, Machiavelli, Hobbes and Locke. [52L, 26T]

POL201Y Politics of the Third World

The purpose of this course is to introduce students to the analysis of Third World Politics from the standpoint of the dynamics of underdevelopment. It aims to make students acquainted with the interaction amongst contemporary political structures, ideologies and processes of socio-economic change that occur in the so-called Third World countries. Emphasis is placed on the understanding of the nature and causes of, and responses to, problems of underdevelopment (or, as conventional wisdom has it, Third World's failure to develop). Theories of underdevelopment; the historical roots of underdevelopment; development styles; militarization; political instability; revolutionary changes, and recurrent political processes are discussed by reflecting on the national histories and social structures of countries such as Brazil, Chile, Senegal, and "troubled areas" such as Southern Africa and Central America. [52L]

POL203Y Politics and Government of the United States

A comparative study of the development of American government and the main elements of the American political tradition; the structure and functioning of executives, legislatures, courts, bureaucracies, parties, and pressure groups in federal and state government; characteristic processes of American politics such as voting, bargaining, and regulation; and resultant patterns of public policy. [52L]

POL204Y Politics and Government of the U.S.S.R.

Historical development of the Soviet political and economic system; the leadership, party, public administration, political socialization, interest groups, dissent. [52L]

POL205Y Contemporary British Politics

The main theme of this course is the effect of economic decline and the loss of great power status on political processes and political institutions in Britain. Particular attention will be paid to the impact of social and economic change on the political parties and the party system. [52L]

POL208Y Introduction to International Relations

The contribution of the individual, the group, the nation, the state, and the international system to conflict and conflict management in the nineteenth and twentieth centuries, and an examination of the problems of equity and justice in the contemporary international system. [52L, 26T]

POL209Y Public Administration and Public Policy in Canada

Combines a study of the organization, processes and issues in Canadian public administration with a study of the institutions and processes involved in policy making. Also focuses on the study of specific policy areas including some of the following: economic policy, social welfare, regional disparities, and industrial development. [52L, 10T]

Exclusion: POL307Y

Prerequisite: COM120H/121H/103H/
POL100Y/102Y

POL212Y Canadian Political Thought

This course will examine four main themes in Canadian politics, nationality, authority, equality, and technology. The approach will be historical and comparative, drawing on books, articles, sermons and manifestos from the eighteenth century to the present. Special attention will be paid to similarities and differences between Canada and the United States. [52L]

Prerequisite: POL100Y/102Y

POL305Y Politics and Society in Latin America

The colonial heritage, the failure of nation-states to develop as integrated and autonomous power structures, dependent capitalism and political order, contrasting types of domination, rigid monopolization and the flexible use of the state by ruling sectors, national revolution and socialist alternative. [52L]

Prerequisite: A course in POL/a course on developing countries.

POL306Y Soviet Foreign Policy

This course seeks to identify and explore persistent patterns in the foreign conduct of the USSR. During the first term, consideration is given to tendencies in Soviet behaviour, foreign policy-making; and to the relationship between ideology and perception. Thereafter the course turns to selected issues in Soviet foreign relations since 1945: war and peace, (political-military strategy, risk-taking and crisis behaviour, strategic arms acquisition and arms control, European force reductions, European security arrangements, naval developments), relations with Eastern and Western Europe, the international Communist movement, China, the Middle East, the developing areas, and Canadian-Soviet relations. [52L]

Prerequisite: POL204Y/208Y/HIS250Y

POL309Y The State, Planning and Markets

Examines the principal theoretical arguments of Liberalism, Marxism and Democratic Socialism; major differences within the Liberal and Marxist traditions as well as between them; the historical development and current problems of planned and market economies; the rule of law, politics, and the potential for democratic control in both capitalist and socialist societies. [52L]

Exclusion: POL214Y

Prerequisite: POL100Y/102Y/ECO100Y

POL312Y Canadian Foreign Policy

A theoretical and historical view of Canada's external relations; the Canadian foreign policy process, including policy approaches, government decision-making, domestic and external processes and instruments, techniques and bargaining; relations with the United States, Europe and the outer world; foreign policy in the diplomatic, military, economic and cultural sectors. [52L]

Prerequisite: POL208Y

POL316Y Contemporary Canadian Federalism

Constitutional, political, administrative, and financial aspects of federal-provincial relations, regionalism and cultural dualism. [52L]

Prerequisite: POL100Y/102Y

POL317Y Comparative Public Policy and Administration

Major theories and concepts in the fields of public administration and public policy, drawing on the experience of Canada and other advanced industrialized nations. [52L, 6S]

Exclusion: POL207Y

Prerequisite: POL100Y/102Y/104Y/203Y/205Y/209Y

POL320Y Modern Political Thought

The development of political thought in the 18th and 19th centuries, including Rousseau, Burke, Hume, Kant, Hegel, the English Utilitarians (Bentham and J.S. Mill), Marx, and Nietzsche. [52L]

Prerequisite: POL200Y

POL321Y Ethnicity and Politics

Ethnic politics in industrialized societies. Issues include: forms of multiethnic polities; institutions, processes, and policies that regulate ethnic relations; organizations, resources, and strategies of ethnic groups. First term focuses on Canada. Second term develops a comparative approach with cases drawn from pluralist democracies, authoritarian regimes, and socialist states. [52L]

Prerequisite: A course in POL.

POL327Y Comparative Foreign Policy

Comparative study of the foreign policies of the Soviet Union, the United States, Great Britain, France, and Germany. [52S]

Prerequisite: POL208Y

POL328Y International Organization

A weekly two-hour lecture concerned with the development, structures, and functions of international organizations. The emphasis is on the political impact of international organizations and international law in international relations. Attention will be focused on the two universal political organizations, the United Nations and its forerunner, the League of Nations. Other international organizations will also be considered. [52L]

Prerequisite: POL208Y

POL329Y Marxism

A survey of Marxist political thought dealing with Marx and Engels; the German Social Democrats; Lenin, Trotsky and the Russian revolution; Maoism; problems of contemporary communism. [26L, 26S]

Prerequisite: A course in political theory or philosophy.

POL336H Ontario Government and Politics

(Formerly POL331H)

Political structures and processes in Ontario; Cabinet government; the interaction of Cabinet, Legislature and public service; political parties and the party system; provincial-municipal relations. [26L]

Prerequisite: POL100Y/102Y

Exclusion: POL331H

POL333Y Comparative Provincial Politics

Parties and party systems, elections, voting behaviour, political culture, administrative machinery, decision-making processes and institutions, similarities and differences in public policy. [52L]

Prerequisite: POL100Y/102Y

POL340Y International Law

International law as an instrument of conflict resolution. Recognition, sovereign immunity, subjects of international law, and jurisdiction are some of the subjects examined. [52L]

Prerequisite: POL208Y

POL406Y From Liberalism to Liberal Democracy

The development of liberal thought from Locke to James Mill, including the work of Hume, Smith, Montesquieu, Rousseau, Bentham and James Mill. [52S]

Prerequisite: POL200Y/320Y

POL416Y Politics of the International System

Examines international politics in systemic terms from the time of the French revolution to the present. In particular, attempts to determine which forces, and under what conditions, bring about stability, change or disruption of the system. [52S]
Prerequisite: POL208Y

POL440Y Politics and Governments of Eastern Europe

A comparative analysis of eight Communist states: Albania, Bulgaria, Czechoslovakia, East Germany, Hungary, Poland, Romania, and Yugoslavia. [52S]

Prerequisite: POL204Y/208Y/329Y or permission of instructor

POL460Y Studies in Modern Political Theory

Starting from two views of Kant - the "contractual tradition" (Rawls) and the ideal of "concrete totality" (Goldmann) - the course looks into contributions to the modern theory of society and politics by György Lukacs, Jean-Paul Sartre, John Rawls and Jürgen Habermas. [26L, 26S]

Prerequisite: POL200Y/320Y

POL472H Provincial Government (Formerly POL413Y)

Growth of the provincial state and the development of provincial policy making. Emphasis on the socio-economic environment of provincial government, the determinants and structures of policy making and public administration, federal-provincial relations, and provincial party and electoral systems. Leadership and political culture are also considered.

Prerequisite: POL100Y/102Y, one other course in Canadian politics.

POL473H Local Government in Canada (Formerly POL413H)

The structure and political processes of local government in Canada. Topics include finance, provincial-municipal relations, elections, local government reform, and selected case studies. [26S]

Prerequisite: POL100Y/200Y, one other course in Canadian politics.

POL495Y Undergraduate Reading Course

A reading course in which the written component will be agreed upon between the student and instructor.

Prerequisite: Permission of Instructor and Assistant Chairman

R. Abramovitch, B.A., M.A., Ph.D.
 T.M. Alloway, B.A., M.A., Ph.D.
 K. Blankstein, B.A., M.A., Ph.D.
 C.M. Corter, B.A., Ph.D.
 M. Daneman, B.A., M.A., Ph.D.
 A.S. Fleming, B.Sc., Ph.D.
 L. Krames, B.A., M.A., Ph.D.
 G. Moraglia, M.Sc., Ph.D.
 M. Moscovitch, B.Sc., M.A., Ph.D.
 P. Pliner, B.S., Ph.D.
 J. Polivy, B.S., M.A., Ph.D.
 E. Reingold, B.A., M.A., Ph.D.
 B. Schneider, B.A., Ph.D.
 M.L. Smith, M.Sc., Ph.D.
 S.E. Trehub, B.Com., M.A., Ph.D.

Discipline Representative:

Professor T. Alloway

Faculty Advisors: Professor A. Fleming, Room 2034 (by appointment), telephone 828-3961 and Professor R. Abramovitch, Room 2036 (by appointment), telephone 828-3964.

Psychology is the science that examines the structure and organization of behaviour in animals and man. It is concerned with the means by which behaviour is acquired and explores the mechanisms of adaptation to the social and physical environments. Emphasis is on cognitive, social, physiological, genetic, and other factors which determine or affect behaviour. Among the topics covered by psychology courses are developmental changes in behaviour, learning, the structure and organization of the senses, modes of perceiving and responding to the environment, and genetic events which shape behaviour, the origins and implications of drives, motives, conflicts, and emotions, and the wide variety of individual and species differences which are produced by differences in genetic endowment, physiology, and past experience.

Because of the demands of science for rigor and objectivity, stress is given to the techniques by which behaviour is studied. Because psychology is the science of the behaviour of all organisms, the discussion of animal behaviour constitutes an important part of many psychology courses. An intensive examination of research findings is paramount in all psychology courses.

Students who are interested in psychology as a career must be prepared for several years of graduate study. Persons who hold a Ph.D. in psychology find employment in universities, research institutes, hospitals and clinics, government agencies, and large corporations. A few work as self-employed consultants or therapists. The B.Sc. with a concentration in psychology is not in itself a professional qualification. People holding bachelor's degrees in psychology typically find

employment in a wide variety of business, technical, educational, or social-service areas. However, further formal or on-the-job training is usually required. Nevertheless, undergraduate courses in psychology may be valuable to students planning various professional careers in medicine, law, nursing and education, for example. Students wanting information can consult either of the faculty advisors listed above.

(*) Courses designated by an asterisk require that the student arrange for a faculty supervisor during the preceding term and submit a ballot. Students may take no more than the equivalent of four "project" or "thesis" half courses.

PSY100Y Introductory Psychology

Psychology is the science of behaviour, and the course seeks to acquaint the student with the scientific method as it is applied in attempts to understand both human and animal behaviour. This course is a prerequisite for all other psychology courses. [52L, 26P]

PSY201H Research Design and Analysis in Psychology I

Basic descriptive and inferential statistics. [26L, 26T]

Exclusion: Any concurrent or previous statistics course

Prerequisite: Any OAC Mathematics/MAT108H/112Y/132Y/138Y/P.I., PSY100Y.

PSY202H Research Design and Analysis in Psychology II

Concerned with the design of experiments and the more advanced methods of statistical analysis, including complex analysis of variance. [26L, 13T]

Exclusion: Any concurrent or previous statistics course except PSY201H

Prerequisite: PSY100Y, 201H

PSY210Y Introduction to Development

A survey of the scientific study of development with an emphasis on the psychological development of children. Topics include historical and philosophical background, methods and theories, and research on particular aspects of behavioural development. [78L]

Prerequisite: PSY100Y

PSY220Y Introduction to Social Psychology

A survey of contemporary areas of research in social psychology. Areas to be considered include social perception, attitudes, interpersonal relations, group processes, and ethnic attitudes. [78L]

Prerequisite: PSY100Y

PSY230H Introduction to Personality

A survey of theories of personality, focusing on its formation and components, and an evaluation of the empirical status of each theory according to the current research literature. [39L]

Prerequisite: PSY100Y

PSY252H Animal Behaviour

A survey of the social behaviour of animals in field and laboratory settings. Emphasis will be placed on the application of evolutionary theory to the understanding of animal behaviour. A variety of mathematical models of behavioural evolution will be discussed. Although calculus is not required, students should have a good background in algebra at the high school or university level. [39L]

Prerequisites: PSY100Y, at least one OAC Mathematics/P.I.

PSY260H Introduction to Learning

A survey of empirical findings and theoretical interpretations relevant to the scientific study of the phenomena of learning and memory in human and animal subjects. [39L]

Prerequisite: PSY100Y

PSY270Y Introduction to Cognitive Psychology

A systematic investigation of thought processes and mechanisms underlying them. Topics include memory, problem solving, language and attention. [78L]

Prerequisite: PSY100Y

PSY280Y Perception

An introduction to the scientific study of perceptual functions in man and lower animals, with emphasis on mechanisms and processes underlying vision and audition. Focus is on the integration of the biological, physiological, and cognitive aspects of perception. [78L]

Prerequisite: PSY100Y

PSY290Y Introduction to Physiological Psychology

An introduction to the study of the neural and endocrinological bases of behaviour, including aspects of normal and abnormal neural and cognitive development. [78L]

Prerequisite: PSY100Y

PSY311H Social Development

A survey of contemporary research and theory in various aspects of social development such as moral development, sex-role development, aggression, pro-social behaviour. [39L]

Prerequisite: PSY100Y, 210Y

PSY314H Perceptual Development

A survey of current research in auditory and visual abilities in infancy and childhood. [39L]

Exclusion: PSY312H(G)

Prerequisite: PSY100Y,210Y/280Y

PSY315H Cognitive Development

A survey of contemporary research and theory in the development of language, thinking and intelligence, focusing on Piaget's views. [39L]

Exclusion: PSY312H(G)

Prerequisite: PSY100Y,210Y/260H/270Y

PSY316H Early Social Behaviour

A seminar on topics such as parent-infant relationships and early emotional development. Students read original research reports, write weekly essays and participate in seminar discussions. [39S]

Prerequisite: PSY100Y,210Y

PSY320H Social Psychology: Attitudes

Intensive study of social attitudes and opinions, including their development, description, measurement, modification, and organization. [39L]

Prerequisite: PSY100Y,220Y

PSY324H Aggression

Examination of the situational determinants of human aggressive behaviour. Some comparative literature will be related to a global view of the problem. Topics include: definition of aggression, aggression as arousal, alcohol and violence, personal space, anger and cognitive labelling, and deindividuation. [26L]

Prerequisite: PSY100Y

PSY331H Psychological Tests

A survey of the fundamental psychometric properties of tests, test construction, the factors influencing the use and interpretation of tests, and a critical analysis of selected applications of tests. [39L]

Prerequisite: PSY100Y,201H, any other 200 level course in Psychology

PSY332H Advanced Personality

Detailed discussion of the extension of major theories of personality to treatment (therapy) for personality disorders, and research growing out of the theories. [26L]

Prerequisite: PSY100Y,230H

PSY340Y Abnormal Psychology

A survey of theories and research on abnormal behaviour and psychological treatment with special emphasis on social learning theory and behaviour modification techniques. [78L]

Exclusion: PSY240H(G)

Prerequisite: PSY100Y, a 200 level course in Psychology

PSY341H Psychopathologies of Childhood

Considers concepts of normal, abnormal and delayed development. Schemes of classification and diagnosis, approaches to identification of etiologies, and contemporary treatment methods are critically evaluated.

The emphasis is on controlled research as a primary source of knowledge about psychopathology and treatment. [39L]

Prerequisite: PSY100Y,210Y/340Y

PSY354H Comparative Social Behaviour

Types of social organization and interaction in various animal groups will be discussed.

Emphasis will be placed on the evolution, ontogeny, and biological functions of social behaviour in animal groups which possess complex social systems. [39L]

Prerequisite: PSY100Y,P.I.

PSY373H Human Memory and Learning

Facts, theories, and methods in the study of human learning. Major emphasis will be on recent trends in the study of verbal learning, memory and verbal behaviour. [39L]

Exclusion: PSY371H(G),372H(G)

Prerequisite: PSY100Y,260H/270Y (PSY270Y is strongly recommended)

PSY374H Introductory Psycholinguistics

A contemporary approach to the psychological study of language and speech, highlighting the biological and cognitive aspects of language acquisition and use. [26L]

Exclusion: JLP374H(G)

Prerequisite: PSY100Y,210Y/260H/270Y

PSY376H Psychology of Reading

Survey of various topics concerning reading processes and their acquisition, including perceptual processes in reading, reading comprehension and recall, learning to read, individual differences in reading skills, rapid reading, reading disabilities and artificial intelligence models of reading. Emphasis will be on an understanding of the underlying information-processing mechanisms. [39L]

Prerequisite: PSY100Y,260H/270Y

PSY381H Perception: Audition

Current developments in research and theory in audition (hearing). The main emphasis will be on perceptual processes, but the physical nature of the stimuli and their effects on the nervous system will also be studied. [39L]

Prerequisite: PSY100Y,280Y/290Y. OAC Calculus/MAT112Y/132Y/138Y/P.I.

PSY393H Cognitive Neurology

Problems in cognitive psychology will be explored from the viewpoint of clinical neurology. Some sample topics: amnesia and models of memory; split-brain research; the temporal lobes and verbal and non-verbal memory; the role of the frontal lobes; perceptual asymmetries in normal people; models of brain function. [26L]

Prerequisite: PSY100Y, 252H/270Y/290Y

PSY394H Motivation and Emotion

This course will examine models of emotion from an historical and theoretical perspective. Close attention will be paid to the role of cognitive-perceptual, autonomic and somatic variables particularly as they relate to the phenomenology of emotion and the motivation of behaviour. [26L]

Prerequisite: PSY100Y, a 200 level course in Psychology

PSY400Y(*) Thesis

Each student will conduct independent research and write a thesis under the supervision of a staff member(s). Seminar meetings will be held weekly to discuss: (a) general topics important to the conduct of research; (b) student research proposals; (c) thesis results. Admission decided on the basis of academic merit. [78S]

Prerequisite: PSY100Y, 201H, 202H/ BIO360H, PSY309H/laboratory course in Psychology, satisfactory progress in the Specialist Programme in Psychology or Interdisciplinary Specialist Programme in Animal Behaviour.

PSY402H Systems of Psychology

An in-depth analysis of (a) key issue(s) in the study of mind and behaviour, as debated within the context of twentieth century psychology (topics change periodically). Such an analysis entails the consideration of the historical, conceptual, methodological and factual foundations of major current approaches to psychological knowledge, including their relationship to allied scientific disciplines and professional expertise. [39S]

Prerequisite: PSY100Y and one full psychology course at 300 level or equivalent, or explicit P.I.

PSY403H(*) Individual Project

Designed for students desiring to pursue independent research into a specific aspect of human or animal behaviour.

Prerequisite: PSY100Y, 201H, 309H/a laboratory course, P.I.

PSY404H(*) Individual Project

Designed for students desiring to pursue independent research into a specific aspect of human or animal behaviour.

Prerequisite: PSY100Y, 201H, 309H/a laboratory course, P.I.

PSY405H(*) Individual Project

(Formerly PSY303H)

Designed for students desiring to pursue independent research into a specific aspect of human or animal behaviour.

Prerequisite: PSY100Y, 201H, 309H/a laboratory course, P.I.

PSY406H(*) Individual Project

(Formerly PSY304H)

Designed for students desiring to pursue independent research into a specific aspect of human or animal behaviour.

Prerequisite: PSY100Y, 201H, 309H/a laboratory course, P.I.

PSY409H Experimental Design and Theory (Formerly PSY309H)

Problems involved in research design and the interpretation of experimental findings; the logical structure of psychological theories. Practice in the critical evaluation of research designs. [39L]

Prerequisite: PSY100Y, 201H

PSY410H Special Topics in Developmental Psychology

(Topics change periodically)

Examination in depth of a limited topic within developmental psychology. Content in any given year will depend on instructor. Course description is available from the Psychology Secretary. [39S]

Prerequisite: PSY100Y, 210Y

PSY419H Developmental Psychology Laboratory

(Formerly PSY319H)

Readings, laboratory exercises and research projects designed to acquaint the student with methodology appropriate for infant and child study. [39P]

Prerequisite: PSY100Y, 201H, 210Y

PSY420H Special Topics in Social Psychology

(Topics change periodically)

Examination in depth of selected topics within social psychology. Content in any given year will depend on instructor. Course description is available from the Psychology Secretary. [39S]

Prerequisite: PSY100Y, 220Y

PSY429H Social Psychology Laboratory
(Formerly PSY329H)

Independent research projects in social psychology. Each project will include the design of an experiment, data collection, and a written report. [39P]

Prerequisite: PSY100Y,201H,220Y

PSY430H Special Topics in Personality

(Topics change periodically)

Examination in depth of selected topics within personality. Content in any given year will depend on the instructor. Course description is available from the department secretary. [39L]

Prerequisite: PSY100Y,230H

PSY440H Special Topics in Abnormal Psychology

(Topics change periodically)

Examination in depth of a limited topic within abnormal psychology. Content in any given year will depend on instructor. Course description is available from the Psychology Secretary. [39S]

Prerequisite: PSY100Y,340Y

PSY442Y Practicum in Exceptionality in Human Learning

(Formerly PSY342Y)

A seminar and practicum dealing with the philosophy and application of psychological principles in working with exceptional children, both handicapped and gifted. Seminar at Erindale, practicum through selective placement in elementary and secondary schools and other public agencies, under the supervision of the course instructor. [26S, 52P]

Prerequisite: PSY100Y and 10 full course equivalents, including PSY210Y

PSY471H Special Topics in Cognition

(Topics change periodically)

Examination in depth of selected topics within cognitive psychology. Content in any given year will depend on the instructor. Course description is available from the department secretary. [39L]

Prerequisite: PSY100Y,270Y/260H

PSY479H Human Memory and Learning Laboratory

(Formerly PSY379H)

Experiments will be carried out to illustrate recent theoretical and experimental issues. Students use themselves (and other students) as subjects and they design, carry out and report experiments in this area. [39P]

Prerequisite: PSY100Y,201H,270Y/373H

PSY480H Special Topics in Perception

(Topics change periodically)

Examination in depth of selected topics within perception. Content in any given year will depend on instructor. Course description is available from the Psychology Secretary. [39S]

Prerequisite: PSY100Y,280Y

PSY489H Sensory and Perceptual Processes Laboratory

(Formerly 389H)

The fundamentals of sensory and perceptual processes. Students conduct laboratory experiments, using each other as subjects. [39P]

Prerequisite: PSY100Y,201H,280Y

PSY490H Advanced Topics in Physiological Psychology

(Formerly PSY390H)

(Topics change periodically)

Current areas of research in physiological psychology will be explored in detail. These areas will include the following: the hormonal bases of human and animal behaviour, the development of motivational systems and perceptual capacities, the physiological bases of memory, language, and other higher cortical functions in man, and the neurochemical bases of sleep and emotion. [39L]

Prerequisite: PSY100Y,290Y,P.I.

PSY499H Psychobiology Laboratory

(Formerly PSY399H)

Supervised demonstration experiments designed to familiarize students with methods of collecting, analysing, and reporting data in ethological and physiological experiments employing animal subjects. Students will also learn how to handle selected species of animals. [39P]

Prerequisite: PSY100Y,201H,290Y

L.J. Elmer, B.A., S.T.B., S.T.D.
 B. Henaut, B.A., M.A., Ph.D.
 M.J. Lavelle, B.A., M.A.
 M. McLaughlin, B.A., M.A.
 N.F. McMullin, B.A., S.T.B., M.Th., Ph.D.
 S. Nigosian, B.A., M.A., Ph.D.
 L.E. Schmidt, B.A., M.A., Ph.D.

*Discipline Representative and
 Faculty Advisor:* Professor L.E. Schmidt

From the dawn of consciousness, human beings have expressed their responses to the mystery of the origin and destiny of the cosmos, and of their own participation in the cosmic process, through religious myths, rituals and symbols of great diversity and complexity. These forms of expression have, at times, coalesced into particular patterns and traditions which we now identify as "great" or "world" religions. These religions have, in turn, influenced the culture (language, art, institutions, values) of societies and of the individuals who make them up. The academic study of religion examines with intellectual openness and sensitivity the major traditions and their offshoots, and critically evaluates the truth claims of their adherents as well as their heretics.

The study of religion offers useful preparation for participation in a religiously diverse world. As an inquiry into an important dimension of human life, it is intrinsically valuable and satisfying, but can also help prepare one for a wide range of careers including social work, law, politics from the local to the international level, teaching, medicine, or leadership in religious organizations. The academic study of religion can also lead to graduate work, such as the M.A. and Ph.D. levels at the University's Centre for Religious Studies.

While students on the Erindale Campus may major and specialize in a variety of programmes in Religious Studies, the particular strength of the Erindale offerings is in the area of religion, ethics and society. In fact, a Specialist Programme in Religion, Ethics and Society is offered exclusively at Erindale and can be taken in its entirety on the Erindale Campus.

For further information, please consult the Department of Religious Studies handbook available in the office of the departmental secretary (Room 227, North Building) or from any RLG instructor. Should you wish to set up an appointment with a faculty advisor, please contact the department secretary (828-3727).

RLG100Y World Religions: An Introduction (Formerly REL220Y)

An introduction to the main teachings, practices and institutions of the major religious traditions from prehistoric to modern times, including Hinduism, Buddhism, Jainism, Confucianism, Taoism, Shinto, Zoroastrianism, Judaism, Christianity and Islam. [52L, 26T]
Exclusion: REL100Y/REL220Y

RLG105Y Contemporary Problems in Religious Ethics

An introduction to the analysis of ethical problems in the context of religious studies. Abortion; euthanasia; poverty; militarism; sex, marriage and the changing roles of men and women; reproductive technologies. [52L, 26T]
Exclusion: REL105Y

RLG207Y East Asia: Religion and Society (Formerly REL270Y)

An examination of the main teachings and practices of the major religious traditions of East Asia (Confucianism, Taoism, Buddhism and Shinto) in the context of the societies (mainly China, Korea and Japan) in which those traditions played a dominant role from ancient times to the present. Modern movements, such as Maoism in China and the New Religions of Japan, will also be studied. Our working hypothesis is that developments in "religion" both reflect and address changes in the broad structures (economic, political, social) of the societies in which those developments take place. [52L, 26T]
Recommended preparation: RLG100Y
Exclusion: REL270Y

RLG208Y South Asia: Religion and Society (Formerly REL271Y)

An examination of the main teachings and practices of the major religious traditions of South and Southeast Asia (Hinduism, Buddhism, and, subsequently, Islam) in the context of the societies (India, Burma, Thailand, Indonesia, etc.) in which those traditions played a dominant role from ancient times to the present. Modern movements, such as the political activism of Buddhist monks in Thailand, will also be studied. Our working hypothesis is that developments in "religion" both reflect and address changes in the broad structures (economic, political, social) of the societies in which those developments take place. [52L, 26T]
Recommended Preparation: RLG100Y
Exclusion: REL271Y

RLG213Y The Roles of Religion in Human Development (Formerly REL230Y)

The positive and negative roles which religion has played and continues to play in the process of human development. A general analysis of personhood and the need in authentic human living for self-transcendence. The phenomenon of faith; religion as wonder; religion as meaning; and religion as health. [52L]
Exclusion: REL230Y

RLG225H Christian Ethics and Human Sexuality

(Formerly REL223H)

The basis in Christian ethics for: a formulation of standards of inter-personal conduct and sexual relations; an analysis of changing sexual mores, familial structures and childrearing techniques; and a critical evaluation of the development of reproductive technologies (e.g. artificial insemination, surrogate motherhood). [26S]

Recommended Preparation: RLG105Y

Exclusion: REL223H

RLG230Y Religion and Literature

(Formerly REL203Y)

The problems of doubt and faith, despair and hope, flesh and spirit, vice and virtue, sin and grace, suffering and freedom, mortality and immortality, in the works of selected imaginative writers. Critical analysis, in terms of classical theological categories, of selections from such authors as Dostoyevsky, Bernanos, Mauriac, Eliot and Camus. (All works to be read in English). [52L, 26T]

Exclusion: REL203Y

RLG238H Religion and Identity in Canada

(Formerly REL207H)

Personal and social identity as created and expressed through such Canadian religious groups as "mainline" religious traditions, evangelical sects, pentecostal-charismatic movements, ethnic churches, and the "new religions". Religious behaviour studied as the interplay between believing and belonging. [26S]

Recommended Preparation: RLG105Y

Exclusion: REL207H

RLG241Y Early Christian Writings: The New Testament

An introduction to the types of literature in the New Testament (Gospels, Acts, Epistles, Apocalypse) and to the distinctive content of the literature as a whole. The history of texts and versions, the process of canonization of the literature, and the critical methods of scriptural study are examined. [52L, 26T]

Exclusion: REL241Y

RLG243Y Major Themes in Biblical Literature

(Formerly REL212Y)

Major religious themes running through biblical literature. Old and New Testament concepts of creation, election, covenant, salvation, divine law, prophecy, wisdom, justification, etc. [52L, 26T]

Exclusion: REL212Y

RLG261Y Christianity's Encounter with World Religions

The ways in which the development of Christian beliefs, practices and institutions were influenced by Christianity's interactions with other religious traditions over the centuries from the earliest days to the present. [52L]

Exclusion: REL261Y

RLG312H Religious Interpretations of Cosmic and Biological Evolution

Evolution and Christianity: cosmic and religious implications in the twentieth century thought of Teilhard de Chardin. Concepts of building the earth, converging and personalizing universe, matter and spirit, energetics of love. Evolution as it relates to religious themes of creation, hope, evil, cosmic Christ, the end of time. [26L]

Exclusion: REL362Y, 312H

Recommended Preparation: one previous RLG course

RLG314H Evil and Sin: A Christian Interpretation

(Formerly REL363H)

Evil is examined as a universal reality which presents itself both as a philosophical/theological challenge, and as a mystery in human existence. It calls into question the goodness and power, if not the very existence, of God and raises questions about justice and meaning of human and cosmic existence. An examination of the biblical and theological background to a Christian interpretation of cosmic and moral evil. [26L]

Exclusion: REL363H

RLG315H The Future of Religion

(Formerly REL382H)

Theistic religion in the modern world: its forms, impact and relevance; nineteenth and twentieth century critiques, and debates concerning the existence and concepts of a personal God: God above, God ahead or no God. Theistic and atheistic responses to secularization; the challenge of evolutionary theory to religion. [26L]

Prerequisite: One RLG course

Recommended Preparation: RLG213Y/312H

Exclusion: REL3 H

RLG323H Jesus of Nazareth

(Formerly REL314H)

Analytic and comparative study of the earliest accounts of Jesus; the "historical Jesus", viewed in the light of Jewish Messianic expectations. [26L, 13T]

Recommended Preparation: RLG241Y

Exclusion: REL314H

RLG324H Paul of Tarsus

(Formerly REL319H)

The literary form of Paul's letters, the sources of his thought, and the theological view that emerges. [26L, 13T]

Recommended Preparation: REL241Y

Exclusion: REL319H

RLG329Y The Development of Christian Identity

(Formerly REL375Y)

The development of Christian identity, (1) as examined from a psycho-social, ethical and theological perspective; (2) as revealed in personal documents like auto-biographies, diaries and letters; (3) as a challenge in a secularized, technological society dominated by the mass media. [52S]

Prerequisite: one REL course

Recommended Preparation: RLG105Y/ 213Y

Exclusion: REL375Y

RLG338Y Technology, Ethics and the Future of Humanity

(Formerly REL224H)

The role of technology within various projections of global economic development examined from a Christian ethical perspective. Ethical responses to some of the problems which threaten the future of humanity: poverty, resource depletion, environmental degradation and the arms build up. [52L]

Recommended Preparation: RLG105Y

Exclusion: REL224H

RLG339H Social Issues and the Canadian Churches

(Formerly REL315H)

An analysis of Protestant and Roman Catholic responses to current Canadian social and ethical issues such as: immigration and refugee policy, unemployment and poverty, peace and disarmament, northern development, corporate responsibility, women's rights, pornography. [26S]

Recommended Preparation: RLG105Y/238H/ 338Y

Exclusion: REL315H

RLG362H Modern Japan: Religion and Society

(Formerly REL347H)

The impact of modern technological developments and Western culture on traditional Japanese society. The role of the "New Religions" as well as the older traditions in 20th century Japan. [26L, 13T]

Recommended Preparation: RLG100Y/207Y

Exclusion: REL347H

RLG367Y Buddhism: Its Essence and Development

(Formerly REL263Y)

The origins of Buddhist teachings, practices and institutions in India, their spread throughout the rest of Asia, and the development of new schools of Buddhism in East Asia. Common and distinctive characteristics of the three major branches (Theravada, Mahayana and Tantra). [52L, 26T]

Recommended Preparation: RLG100Y/207Y/ 208Y

Exclusion: REL263Y

RLG383Y World Religions: A Comparative Study

(Formerly REL361Y)

A comparison of the main teachings, practices and institutions of the major religious traditions of the West (especially Christianity) with those of the East (especially Buddhism). Points of similarity and contrast between them, the ways in which the traditions are being influenced by modern movements (humanism, secularism, etc.), and our understanding of them in light of various modern theories of religion (Freud, Marx, etc.). [52S]

Recommended Preparation: RLG100Y

Exclusion: REL361Y

RLG490Y Individual Studies

Student-initiated project of reading and research, supervised by a member of the Department. Primarily intended for Specialists and Majors. After obtaining a supervisor, a student must apply to the Department.

Exclusion: REL490Y

RLG491H Individual Studies

Student-initiated project of reading and research, supervised by a member of the Department. Primarily intended for Specialists and Majors. After obtaining a supervisor, a student must apply to the Department.

Exclusion: REL491H

RLG492H Individual Studies

Student-initiated project of reading and research, supervised by a member of the Department. Primarily intended for Specialists and Majors. After obtaining a supervisor, a student must apply to the Department.

Exclusion: REL492H

M. Blute, B.A., M.A., Ph.D.
 H. Boughey, B.A., M.A., Ph.D.
 D. Brownfield, B.A., M.A., Ph.D.
 D.F. Campbell, B.A., M.A., Ph.D.
 H. Friedmann, A.B., M.A., Ph.D.
 B.S. Green, B.A., Ph.D.
 W.E. Kalbach, B.A., M.A., Ph.D.
 J.B. Kervin, B.A., Ph.D.
 E. Silva, B.A., M.A., Ph.D.
 J.H. Simpson, B.A., B.D., Th.M., Ph.D.
 M.W. Spencer, A.B., M.A., Ph.D.
 A.L. Stein, B.A., M.A., Ph.D.
 R.B. Wheaton, B.A., M.A., Ph.D.

*Discipline Representative and
 Faculty Advisor:* Professor D.F. Campbell
 Consult on Mondays through Thursdays.
 Telephone: 828-5317. Or see Departmental
 Secretary, Room 2098, Telephone 828-5395.

Sociology is the study of human group life. It explores the processes by which people fit their activities together. For example, it studies how children acquire the habits of their groups, how adults deal with conflicts, how misfits are punished, how social rankings are maintained, and how entire societies industrialize. Students in other fields may gain from sociology a clearer view of the human condition. In the range of topics that it covers, sociology is an extraordinarily broad area. However, sociologists pose characteristic kinds of questions, and by limiting the scope of their questions they define the boundaries of their discipline. Mainly, sociological research is the pursuit of generalizable answers to puzzling questions about the causes and consequences of recurring patterns, or "structures," of group activities.

Students may select from a variety of special areas of interest in their specialist or major programmes. They may also consult with the department for other combinations of courses such as those emphasizing Canadian society, interpersonal relations, or research methods. The department offers a Specialist, a Major, and Minor programme in Sociology, a major in Crime & Deviance and a major in Peace and Conflict Studies.

SOC101Y Introduction to Sociology

An introduction to the basic concepts, principles, and methods of sociology as a discipline for the study of society. [52L, 26T]
Exclusion: SOC216Y

SOC152Y Introduction to Communication Theory and Research

This course aims at presenting the major theories of verbal and nonverbal communication. The principal purpose is to familiarize the student with the various possibilities of analyzing communication from the point of view of psychology, sociology, philosophy, linguistics, drama, physics and religious studies. The course further aims to acquaint the student with the research methods most commonly used in designing experiments in communication. [52L, 26T]
Prerequisite: SOC101Y/216Y either previously or concurrently

SOC200Y Introduction to Social Research

How social observations are used to develop and test sociological ideas. A variety of theoretical approaches and research techniques are critically examined to illustrate general principles of conceptualization, measurement, and explanation. [52L, 26T]
Prerequisite: SOC101Y/216Y
 Offered in alternate years

SOC202Y Structure of Interpersonal Relations

A study of patterned relationships, social roles, and social expectations that arise out of interaction among individuals. [52L, 26T]
Prerequisite: SOC101Y/216Y

SOC203Y History of Social Theory

Origins and development of the classical tradition of sociological theory; the social and political ideas of this tradition; historical contexts, ideological elements and contemporary relevance. [52L, 26T]
Prerequisite: SOC101Y/216Y

SOC205Y Urban Sociology

Examines the city both as a significant development in world civilization and a working mechanism guided by contemporary policies. Studies human behaviour in its multifaceted relations with the urban environment. [52L, 26T]
Prerequisite: SOC101Y/216Y

SOC206Y Social Organization

Classical and recent theories specifying the organizational bases of different types of society. These are applied comparatively through empirical studies of selected topics. [52L, 26T]
Prerequisite: SOC101Y/216Y

SOC207Y Sociology of Work and Occupations

The nature and meaning of work in relation to changes in the position of the professions, unions and government, of women and minority groups, and in industrial societies more generally. Career choice and strategies, occupational mobility, and individual satisfaction at work. [52L, 26T]

Prerequisite: SOC101Y/216Y

Offered in alternate years.

SOC210Y Ethnicity in Social Organization

Impact of racial, ethnic, and linguistic heterogeneity and of various patterns of immigration on economic, political, and cultural institutions, and on individual identity, self-conceptions, social attitudes, and relations. [52L, 26T]

Prerequisite: SOC101Y/216Y

SOC212Y Deviance and Control

A sociological analysis of deviant behaviour which examines theories of its genesis, social definition, maintenance, control, and social consequences. [52L, 26T]

Prerequisite: SOC101Y/216Y

SOC214Y Sociology of the Family

Development of the contemporary western family with special emphasis on changing relations among its members. [52L, 26T]

Prerequisite: SOC101Y/216Y

SOC215Y Socialization

The acquisition and reproduction of personality, culture, and social structure. Topics will include socialization and the socio-biology debate, psycho-social, cognitive, and behavioural approaches to human development, child-rearing practices, sex-role acquisition and learning, structural influences on values, attitudes and aspirations, political socialization, adult socialization and aging, and the comparative study of socialization. [52L, 26T]

Prerequisite: SOC101Y/216Y

SOC217Y The Quality of Social Life

Applications of social psychological concepts to issues pertaining to the quality of life studied in sociology. Topics include: interpersonal attraction, stability and instability in interpersonal relations, marital satisfaction and divorce, studies of well-being, life satisfaction and mental health, effects of mass media and popular culture on behavior, the socialization of helplessness, persistence of social inequality, equity, and social justice, social change in the family, violence and personal disasters, and causes and consequences of adolescent drug use. [52L, 26T]

Prerequisite: SOC101Y/216Y/PSY100Y/220Y

SOC220Y Canadian Society

An analysis of the changing structure of Canadian society. [52L, 26T]

Prerequisite: SOC101Y/216Y

SOC231Y Peace and War

Violent and nonviolent struggles. Biological, psychological, and social sources of war. The historical frequencies and locations of wars. Global militarization: causes, consequences, possible alternatives. Nonthreatening defence. Who profits from the arms trade? Is war ever justifiable? Mediation. Successful bargaining. Proposals for international order and security, sustainable economic development, and justice. [52L, 26T]

Prerequisite: SOC101Y/216Y/PSY100Y/HIS110Y/PHL101Y

SOC245Y The Sociology of Aging

Social gerontology is a growing discipline dealing with many social aspects of advanced age, e.g., problems of retirement, post-retirement life, living arrangements and family, changes in identity, new roles for later life. [52L, 26T]

Prerequisite: SOC101Y/216Y

SOC 280Y Genocide and Social Disaster

The study of "ordinary" members of mundane settings (town, ethnic/religious group, country, etc.) finding themselves in extreme life and/or human rights-threatening situations (e.g. ghettoization, internment in death/concentration camp, exile, natural disaster, etc. Emphasis on how members shuttle in and out of the roles of perpetrator, victim, spectator, survivor, rescuer. [26L, 26T]

Prerequisite: SOC101Y/216Y

SOC284Y Communication and Ethics

This course examines the different ways that the flow and the content of information are controlled by various agencies, as well as the effects of censorship, or lack of it, on society. [52L, 26T]

Prerequisite: SOC152Y

SOC300Y Quantitative Analysis

(formerly SOC201Y)

An introduction to data analysis which emphasizes understanding rather than mathematics, exploratory techniques (how to look for hypotheses); corresponding confirmatory techniques (how to test hypotheses). Basic analysis of variance, regression, chi-square; tables and graphs. [52L, 26T]

Exclusion: Statistics courses but not STA242Y

Prerequisite: SOC101Y/216Y

Offered in alternate years.

SOC301Y Social Inequality

Examines the various systems by which, in all human societies, rewards (such as prestige, power, wealth, and others) are differentially distributed, and the principal theories that have attempted to account for these phenomena. [52L, 26T]

Prerequisite: SOC101Y/216Y, 1 SOC course at the 200 level either previously or concurrently

SOC303H Careers in Crime and Delinquency

An examination of delinquent and criminal lifestyles from the perspectives of social psychology, the sociology of occupations, and the sociology of law. The etiology, social history, organization, and societal response to different types of crime and delinquency are considered. Special attention is given to the career criminal. [26L, 13T]

Prerequisite: SOC101Y/216Y, 212Y

SOC304Y Change and Conflict in Contemporary Society

An examination of technical, social, and ideological changes accompanying industrialization in both developed and underdeveloped nations. [52L, 26T]

Prerequisite: SOC101Y/216Y, 1 SOC course at the 200 level either previously or concurrently

SOC305Y Sociology of Religion

Various theories of religious behaviour and organization are examined with special attention given to the role of religion in relation to social change and social integration. Current research and methods of study will be stressed. [52L, 26T]

Prerequisite: SOC101Y/216Y, 1 SOC course at 200 level either previously or concurrently
Offered in alternate years

SOC306Y Sociology of Crime and Delinquency

Definitions and sociological explanations of crime and delinquency. Social background of Canadian criminal law; the role of police, courts, prisons and other institutions of social control. [52L]

Prerequisite: SOC212Y

SOC308Y The Canadian Media

An analysis of the institutional foundations and constraints of Canadian printed, filmed and electronic media. Emphasis will be placed upon the historical development of the Canadian media including foreign influences on policy and decision making; the role of such bodies as the CRTC and provincial censorship boards; national versus private broadcasting; bilingual and multilingual media; and the impact of videotext systems, such as Telidon. [52L, 26T]

Prerequisite: SOC101Y/216Y, 1 Sociology course at the 200 level either previously or concurrently

SOC309Y Sociology of Mass Communication

The course critically appraises some modern communications theorists - and dissects some old and new Canadian media institutions. Special emphasis on the origin and destiny of innovation, governmental media organizations and their articulation with media institutions. [52L, 26T]

Prerequisite: SOC101Y/216Y, 1 SOC course at the 200 level either previously or concurrently

SOC311Y Sociology of Education

An analysis of the relationship between education and society in comparative perspective; the consequences of the internal structure of educational systems; and current controversies surrounding the function and structure of educational institutions. [52L, 26T]

Prerequisite: SOC101Y/216Y, 1 SOC course at 200 level either previously or concurrently

SOC312Y Population and Society

An analysis of population change and consequences from both global and Canadian perspectives. Trends in mortality, fertility, and migration are examined relative to their significance for growth, and their relation to social structure and social change. [52L, 26T]

Prerequisite: SOC101Y/216Y, 200Y/300Y

SOC313Y Sociological Theory

The development of sociology and contributions of particular sociologists whose concepts not only have historical interest but also illumine the subject matter and method of contemporary society. [52L, 26T]

Prerequisite: SOC101Y/216Y, 1 SOC course at 200 level either previously or concurrently

SOC315Y Interaction in Institutional Settings

Ethnographic description and comparative analysis of standard social occasions taking place within the domains of the corporation, the church, school, government, and the court. The primary course objective is the observation and documentation of the everyday enactment of institutional "rules of the game" for social interaction. [52L]
Prerequisite: SOC101Y/216Y, 1 SOC course at 200 level either previously or concurrently
Offered in alternate years.

SOC316Y Group Structure and Process

The study of small group processes and structures, including leadership, influence, cliques and coalitions, communication patterns, productivity and morale. [52L, 26T]
Prerequisite: SOC101Y/216Y, 202Y
Offered in alternate years

SOC317Y Industrial Sociology

This course will survey the classical theories of industrial society as well as some of the more recent theories. A series of specific, pertinent issues will then be addressed. [52L, 26T]
Prerequisite: SOC101Y/216, 1 SOC course at the 200 level either previously or concurrently
Offered in alternate years.

SOC319Y Gene Culture Coevolution

Some recent developments in social theory are examined with particular emphasis placed on three evolutionary processes - 1) biological evolution; 2) the "evolution" of behaviour in individual life cycles (individual learning); and 3) sociocultural transmission and evolution; and how these three processes are thought to interact with and affect each other to produce human social behaviour. [52L, 26T]
Prerequisite: ANT100Y/SOC101Y/216Y, BIO101Y/PSY100Y

SOC321H Social Research Methods II: Techniques and Applications

Theoretical and applied problems in research design, sampling and measurement with emphasis on survey research. [26L, 13P]
Prerequisite: SOC101Y/216Y, 200Y
Offered in alternate years.

SOC322H Social Statistics II: Techniques and Applications

The understanding and application of multivariate analysis using computers in the survey research environment. [26L, 13P]
Prerequisite: SOC101Y/216Y, 201Y/300Y
Offered in alternate years

SOC324Y Politics and Society

The social basis of politics. Culture and social organization in their relation to power and its application. [52L, 26T]
Prerequisite: SOC101Y/216Y, 1 SOC course at 200 level either previously or concurrently

SOC325Y Sociology of Health and Medicine

Medicine is examined as a sociocultural phenomenon. A comparative approach will be used to analyze sociocultural processes related to disease and illness etiologies; the social organization of health care; utilization patterns; and the development of healer and patient roles. [52L, 26T]
Prerequisite: SOC101Y/216Y, at least 1 SOC course at 200 level either previously or concurrently

SOC326H The Sociology of Mental Disorders

A survey of sociological perspectives and research in mental disorder. First the problems of defining disorder, and variations in mental health will be considered. Ways of explaining mental disorder in socioenvironmental or social psychological terms are considered next. A model of the treatment process and the consequences of treatment, including family and occupational outcomes, will complete the main body of the course. [26L, 13T]
Prerequisite: SOC101Y/216Y and 1 SOC course at the 200 level.

SOC327Y Sociology of Death and Dying

An analysis of death and the process of dying as social and cultural phenomena with emphasis on the complex of beliefs, ideas and actions relative to death. [52L]
Prerequisite: SOC101Y/216Y, one of SOC215Y/245Y/312Y/325Y

SOC328H Environmental Sociology

An examination of the multi-faceted relationship between the physical environment, especially the built environment (e.g., buildings) and human behaviour. Principles underlying people's use of space and the potential significance of the environment as a variable in the study of human behaviour will be considered. [26L, 13T]
Prerequisite: SOC101Y/216Y, 205Y

SOC329H Collective Behaviour

An analysis of non-conventional social action as seen in crowd and mass behaviour (panics, riots, demonstrations, crazes, etc.) involving a study of relationships between forms of collective action and the more conventional order, i.e., the relationship of collective behaviour to social action and control, stability and change. [26L, 13T]

Prerequisite: SOC101Y/216Y, 1 SOC course at the 200 level either previously or concurrently

SOC330H Race and Ethnic Relations

Social processes involved in minority relations in terms of race and ethnicity and their social, economic, and political consequences. [26L, 13T]

Prerequisite: SOC101Y/216Y, 1 SOC course at the 200 level either previously or concurrently

SOC334Y Communication and Children

Description and analysis of children's verbal and nonverbal communication networks, patterns and skills in the playgroup, in the classroom and with siblings, and with teachers, parents and some other adults. [26L, 26T]

Prerequisite: SOC152Y, 1 SOC course at the 200 level either previously or concurrently

SOC335Y The Language of Conflict

The study of conflict and its enactment in various micro-social settings (family, educational, work-place, leisure, etc.) with special emphasis on identification, typification, strategies of participation in conflict as it really occurs in natural settings and on different social occasions. Theorizing on conflict as a social occurrence, based on material collected in real life situations. [26L, 26T]

Prerequisite: SOC101Y/216Y

SOC346Y Society, Organization, and the Individual

An analysis of formal organizations, e.g., hospitals, prisons, schools, business firms, government agencies, etc., focusing upon their structural characteristics, effects of social environments, and the influence upon their members. [52L, 26T]

Prerequisite: SOC101Y/216Y, 1 SOC course at the 200 level either previously or concurrently

SOC365Y Gender Relations

The roles and statuses of women and men. Theoretical explanations for gender inequality (materialist, idealist, interactionist). Behavior of women and men in various social contexts (including the home, work, and education). Contemporary changes in patterns of paid and domestic labor, parenting, sexuality, and aging. [52L, 26T]

Prerequisite: SOC101Y/216Y

SOC387Y Qualitative Analysis

This course will investigate selected methodological writings, classical field studies and historical works. Themes such as the following will be dealt with: induction, deduction, formation of hypotheses, grounded theory, intersubjectivity, "verstehen."

Appropriate historical and/or field work methodologies will also be utilized.

Prerequisite: SOC101Y/216Y, SOC200Y (Highly Recommended)

Offered in alternate years.

SOC390Y/391H/392H Independent Research

Intended for Sociology Specialists and Majors who have completed ten university courses, i.e., are in third year, and who wish to explore in depth a particular subject area in sociology. Students must have completed or be taking concurrently the required method and theory courses (SOC200Y/201Y/300Y, 313Y, or their equivalent), and have attained a B average in SOC courses. Students may take a maximum of two full course credits, or equivalent, of independent studies. Not more than one full course or equivalent may be taken with the same instructor. To enrol, a student must submit a specific proposal and obtain the approval of both the instructor and the Faculty Advisor.

NOTE: FOURTH-YEAR COURSES provide the opportunity for greater specialization in the six sociology subspecialty areas than is generally possible in the second or third years of the sociology program. The actual content for "selected topics" courses will vary in focus from year to year. Students are advised to check with the Faculty Advisor/Sociology Office for more specific information re availability, course outlines and for instructions on balloting, which is required.

SOC410H Selected Topics in Theory and Research Methods: I [26S, 13P]

Prerequisite: SOC200Y/201Y/300Y for research methods topics, SOC313Y/203Y for sociological theory topics, at least one additional course beyond the introductory level in this subspecialty area

SOC411H Selected Topics in Theory and Research Methods: II [26S, 13P]

Prerequisite: Same as for SOC410H

SOC420H Selected Topics in Interaction: I [26S, 13P]

Prerequisite: SOC200Y/201Y/300Y, SOC313Y/203Y, at least two additional courses beyond the introductory level in this subspecialty area

SOC421H Selected Topics in Interaction: II [26S, 13P]

Prerequisite: Same as for SOC420H

SOC422H Selected Topics in Population, Societies, Urban Life or Inequality: I [26S, 13P]

Prerequisite: SOC200Y/201Y/300Y, SOC313Y/203Y, at least two additional courses beyond the introductory level in the designated subspecialty area

SOC423H Selected Topics in Population, Societies, Urban Life or Inequality: II [26S, 13P]

Prerequisite: Same as for SOC422H

SOC431H Negotiation and Nonviolence

Violence is a means of reaching decisions in conflicts. Here alternative means are reviewed - e.g. mediation, brainstorming, strikes, petitions, spraypainting protests, fasting, or hugging trees to prevent their being felled. Negotiating practice and films on nonviolent sanctions—e.g., Gandhi, Martin Luther King, Jr. and Solidarnosc. [26L, 13T]

Prerequisite: SOC231Y/203Y/313Y

SOC490Y/491H/492H Independent Research

Open only to students who have completed fifteen university courses, i.e., are in fourth year, and have a B average in SOC courses. For other requirements and restrictions, see SOC390Y/391H/392H.

M. Cohen, Doc.Fil.Rom.

O. Hegyi, B.A., M.A., Ph.D.

E.G. Neglia, B.A., M.A., Ph.D.

Discipline Representative and

Faculty Advisor: Professor O. Hegyi

Telephone: 828-5284 or 828-3727

Hispanic culture offers a variety probably unrivalled by any other modern western culture. In the Middle Ages Spain was the vital point of contact between the Christian, Jewish and Islamic civilizations; in its Golden Age it led the way in the exploration and settlement of the New World, and established a great empire in the process; today it is estimated that the Spanish language is the third most widely-spoken in the world. Spanish studies have a twofold goal: the first, to learn to speak, understand, read and write with ease a language shared by over two hundred million people; the second, to become familiar with the civilization and intellectual life of the Hispanic world through the study of the artistic and literary phenomena of that world. In the Erindale courses stress is laid on both spoken and written language and the language laboratory is used to promote fluency. After the first year, all courses, both literary and linguistic, are conducted in Spanish as much as possible to give the student maximum exposure to the language. Two courses, Spanish Civilization and Culture, and Latin American Civilization and Culture, are offered in English and may be taken by students in any year. These courses provide comprehensive views of the social, political, artistic and intellectual developments of Spain and Latin America and have proven useful not only to students studying the language but also to those who may have an interest in the Hispanic scene for other reasons.

Opportunities for qualified teachers exist at the secondary and university levels. In addition, the study of Spanish as of other modern languages, may prepare students for careers in the foreign service, journalism, publishing, commercial and cultural relations between Canada and Spanish-speaking countries. The development of closer Canadian relations with Spain and Latin America will extend the range of opportunity for those well versed in the Hispanic field. In addition to Erindale course offerings, other courses may be taken on the St. George campus with the permission of the Faculty Advisor. Students may also wish to participate in the Study Elsewhere programme.

Early consultation with the staff is essential if the student is to be assured of a programme suitable for his needs and interests.

Students entering Spanish programmes should be aware that commencing in September 1994, they will have to enrol in SPA courses on the St. George campus in order to complete those programmes.

Office Hours: (during term):

Monday - 2:00 p.m. - 3:00 p.m.
Wednesday - 2:00 p.m. - 3:00 p.m.
Room 270

For appointments at other times or during vacation periods phone the academic secretaries at 828-3727. A brochure of the programme is available in Room 227.

SPA100Y Spanish Language for Beginners

For those who have had no previous background in Spanish. By the end of the year, students should have sufficient skill in the written and spoken language to be able to specialize in Spanish if they wish. Emphasis will be placed on oral practice both in class and in the language laboratory. [78L, 26P]
Exclusion: Grade 13 Spanish
Not open to Native Speakers.

SPA220Y Composition and Oral Practice II

Conducted in Spanish and designed for those who have completed a basic course in the language. A grammar review and intensive written and oral practice provide an opportunity for a greater range of expression and a broader understanding of the language. [52L, 26T]

Prerequisite: Grade 13 Spanish/SPA100Y
Not open to Native Speakers.

SPA250Y Spanish Civilization and Culture (In English)

Historical approach to selected topics in Spanish culture and civilization, including literature and art, with special attention given to Spain's interplay with other Mediterranean areas, especially that of Islam. Illustrative material. [52L]
Offered in alternate years.

SPA258Y Forms of Modern Hispanic Literature

An introduction to ways of analysing literature through a study of Modern Hispanic literary texts (drama, prose and poetry). [52L]
Exclusion: SPA247H, 257H
Prerequisite: Grade 13 Spanish/SPA100Y
Offered in alternate years.

SPA280Y Latin American Civilization and Culture

From the pre-Columbian civilization (Aztec, Maya and Inca) to the present; deals with significant manifestations in literature, art, music, architecture. Discussion of social, economic and political problems of Latin America. Illustrative material. [52L]
Offered in alternate years.

SPA320Y Composition and Oral Practice III

Conducted mainly in Spanish and designed to meet the needs of those who already have a good basic knowledge of the language. Emphasis on improvement of style, translation, essay writing and oral practice. [52L, 26T]

Prerequisite: SPA220Y

SPA343H Approaches to Golden Age Drama

A survey of Spain's most fertile, original and historically significant period of dramatic production. Special attention will be given to critical methods, structural analysis and dramatic theory. The plays studied will also be related to the socio-cultural context of the age. [26L]

Exclusion: SPA350Y

Prerequisite: SPA220Y, one other course in the 200 or 300 series
Offered in alternate years.

SPA348Y Modern Hispanic Drama

The major Spanish and Spanish American playwrights of the 20th century. Plays will be discussed and analyzed and, to reveal their full meaning in tangible theatrical terms, students will be encouraged to participate in the actual performance of some plays in a real theatre atmosphere. [52L]

Exclusion: SPA346H, 376H

Prerequisite: SPA220Y

Offered in alternate years.

SPA353H Golden Age Prose

A study, in Spanish, of the varieties of fiction during the sixteenth and seventeenth centuries with special reference to Cervantes. The texts will be related to the historical setting that gave rise to them and the relationship between reality and fiction will be discussed. [26L]

Exclusion: SPA350Y

Prerequisite: SPA220Y/one other course in the 200 or 300 series
Offered in alternate years.

SPA382H Modern Spanish American Novel

A study of the representative novels of Spanish America, including the regional and Indianist novel as well as that of the Mexican Revolution. [26L]

Prerequisite: One or more SPA 200 series courses

Offered in alternate years.

SPA385H Spanish American Stories

Representative works of outstanding Spanish American short story writers including Quiroga, Cortazar, Rulfo and Borges. [26L]

Prerequisite: One or more SPA200 series courses

Offered in alternate years.

SPA420Y Advanced Composition and Oral Practice IV

Designed for those who already have a good knowledge of the language. Emphasis on ability to write and speak good Spanish through translation, essays, letters, class discussions, etc. [52T]

Prerequisite: SPA320Y

L.J. Brunner, B.A., Ph.D., M.A., Ph.D.

O. Fraser, B.Com., M.Sc.

J. Scott, B.Sc.

Discipline Representative and

Faculty Advisor: Mrs. O. Fraser
Room 4059D

Office Hours: Monday - 10 - 12 or
by appointment
828-3814

Statistical theory and methodology have applications in almost all areas of science, engineering, business, government and industry. The practising statistician is involved in such diverse projects as designing clinical trials to test a new drug, economic model-building to evaluate the costs of a guaranteed-income scheme, predicting the outcome of a national election, planning a survey of television viewing habits, and estimating the animal population in a popular hunting district. Statisticians have careers in consulting, government, business, industry and utility companies.

Today's consumer is bombarded with the results of so many quantitative studies using statistical methodology that it is necessary for him to know something about statistics in order to be properly critical. A basic knowledge of statistics should be an integral part of everyone's general education.

STA202H(I) Statistics

Acquaints students with the fundamentals of statistics. The course discusses statistical procedures for describing large quantities of data and for making inferences about populations on the basis of samples. [26L, 13T]

Exclusion: Any concurrent or previous Statistics course

STA212H(I) Application of Statistics

A continuation of STA202H including an introduction to non-parametrics, analysis of variance and linear regression. [26L, 13T]

Exclusion: STA222Y(G), 242Y, 262Y, PSY202H, ECO220Y, 227Y, SOC300Y, BIO361H

Prerequisite: STA202H

STA242Y Probability and Statistics: An Introduction

Elements of probability theory, common distributions, point and interval estimation, standard significance tests, introduction to least squares and analysis of variance. [52L, 26T]

Exclusion: STA262Y, ECO227Y

Prerequisite: MAT138Y/132Y/112Y

STA262Y Probability and Statistics: An Introduction

This course deals more rigorously with the topics included in STA242Y and is intended primarily for students in certain Specialist Programmes. [52L 26T]

Exclusion: STA242Y/ECO227Y

Prerequisite: MAT138Y/(132Y,232H)/(112Y,232H)

NOTE: MAT232H may be taken concurrently.

STA301H Data Analysis

Application of techniques of statistical inference to real data. Stresses the design and interpretation of empirical studies that use a variety of tools such as univariate and multivariate multiple regression and factorial analysis of variance, principal components and factor analysis and nonparametrics.

Introduction to statistical packages including SAS, SPSS and MINITAB. This is a practical non-mathematical course, emphasizing verbal analogues of statistical concepts. [26L, 13T]

Prerequisite: Any statistics course in any department

Offered in alternate years.

STA302H Regression Analysis

Least squares theory and fitting equations to data, analysis of residuals, transformations. Practical implementations stressed. [26L, 13T]

Prerequisite: 1 full STA course equivalent at 200 level.

Corequisite: MAT222H/248Y

Offered in alternate years.

STA312H Topics in Statistics

Topics selected from: nonparametric techniques, multivariate analysis, decision theoretic methods, Bayesian analysis, computer-intensive techniques, exploratory data analysis, sequential procedures, log-linear models, reliability and life-testing.

Computer packages are used. [26L, 13T]

Prerequisite: STA242Y/262Y/ECO227Y, STA212H/301H/302H/ECO327Y

Offered in alternate years.

STA402H Experimental Design

Statistical issues in the design of experiments and the collection of data. Analysis of variance, randomization, factorial designs, blocking, confounding, higher-way tables. [26L, 13T]

Prerequisite: STA302H

Offered in alternate years.

STA437H Applied Multivariate Statistics

Practical techniques for the analysis of multivariate data. T^2 tests, tests of means, simultaneous confidence bounds, profile analysis. Multivariate analysis of variance, regression, correlation, growth curve models, data reduction, principal component analysis, discriminant analysis. Computer packages are used. [26L, 13T]

Prerequisite: STA242Y/262Y/ECO227Y, STA302H/ECO327Y

Offered in alternate years.

STA457H Time Series Analysis

Methods of modelling and forecasting with time series. Autocorrelation functions. Autoregressive, moving average, and ARIMA models. Comparison of time and frequency domain approaches. Computer packages are used. [26L, 13T]

Prerequisite: STA242Y/262Y/ECO227Y, STA212H/301H/302H/ECO327Y

Offered in alternate years.

Emeritus Professor

L.A. Gale, B.A., D.T.S., C.L.S.

R.E. Clipsham, B.Sc., P.Eng., O.L.S.

I. de Rijcke, B.Sc., LL.B., O.L.S.

G. Gracie, B.A.Sc., Ph.Eng., Ph.D., P.Eng.

R.C. Gunn, B.A.Sc., M.A.Sc., M.Sc., P.Eng., O.L.S.

D.C. Kapoor, R. Adm., I.N. (Retd.), B.Sc.

D.W. Lambden, B.Sc.F., Dip. T.C.P., F.R.I.C.S., F.I.S.Aust., M.N.Z.I.S., C.L.S., O.L.S.

V.B. Robinson, B.S., M.S., Ph.D.

T.C. Seawright, B.A., M.A., O.L.S.

A.M. Wassef, B.Sc., Ph.D., A.R.I.C.S.

J.K. Young, B.Eng., M.Eng., P.Eng., C.L.S., O.L.S.

Adjunct Professors

G.R. Douglas, B.Sc., C.L.S.

J.H. O'Donnell, B.A.Sc., Q.L.S., O.L.S.

P. Vanicek, Geodetic Engineer, Ph.D.

Discipline Representative and

Faculty Advisor: Professor G. Gracie (as of July 1, 1992)
Professor D.C. Kapoor
Centre for Surveying Science
Room 3125 South Building
Telephone: 828-5298

Surveying Science deals with the acquisition and management of information related to the land and its surrounding features. It finds application in a variety of activities, which include mapping the earth's surface and charting its waters, locating land boundaries and delineating property, searching for and inventorying natural resources, determining the size and shape of the earth, and locating transportation facilities and other engineered structures.

Surveying Science has close contact with many other disciplines, particularly those which deal with the land, its use, subdivision, development and management; it is very much a quantitative science, built upon a strong base of mathematics, physics and statistics.

The survey law studies are adjunct to the science of surveying inasmuch as the first marking and later retracement of property boundaries is a matter of law and evidence. Students who intend to proceed to registration with the Association of Ontario Land Surveyors will satisfy the academic requirements of the Association's Academic and Experience Requirements Committee by completing the four-year Specialist Programme set forth in Section 7 of this Calendar, together with those other courses specified by the Committee and which are given as elective courses within this Programme.

The Association admits members as cadastral, geodetic, hydrographic or photogrammetric surveyors, only the first of which are licensed to survey land boundaries. For the requirements of the Committee as set down from time to time, students should contact the Faculty Advisor.

For registration as a Canada Lands Surveyor or with another provincial association, students should enquire directly to the secretary of the Committee or Board of Examiners of that jurisdiction.

SUR251H, 352H, 353H, 454H, 455H, 456H and 458H count as social science credits. All other SUR courses count as science credits.

Copies of the Surveying Science handbook are available in Room 3125.

SUR201H(I) Surveying I: Introduction

Introduction to the procedures used to acquire field data with applications in various surveying activities. [26L, 39P]

Prerequisite: Grade 13 Mathematics (Algebra and R&F) or Ontario Academic Credit: Algebra and Geometry.

SUR202H(I) Surveying II: Basic Surveying

Processing of survey data for presentation in various forms. Traverse calculations, coordinate geometry and circular curve geometry. [26L, 39P]

Prerequisite: SUR201H

SUR203H Surveying III: Advanced Surveying

Celestial and terrestrial coordinate systems and their interrelationship. The determination of astronomic azimuth. Definition of elevation; levelling instrumentation and analysis of errors; precise levelling procedures. [26L, 39P]

Exclusion: SUR230Y

Prerequisite: MAT112Y/132Y/138Y, PHY135Y/140Y, SUR202H

SUR204H Surveying IV: Project Surveying

Electromagnetic distance measurement. Theodolite design and geometry.

Construction surveys dealing with alignment and the volume of materials. [26L, 39P]

Exclusion: SUR230Y

Prerequisite: SUR203H

SUR210H Introduction to Survey Analysis

Application of matrix methods and the computer to the analysis of survey problems. Linear equations and their methods of solution. Linearization of computational models. Coordinate transformations. Error analysis and error propagation. [26L, 26T]

Prerequisite: MAT112Y/132Y/138Y, CSC104H/108H/148H

Corequisite: SUR201H

SUR235H Photogrammetry I

Vertical photograph geometry and stereopairs. Stereoscopy and parallax. Introduction to stereomodel orientation and stereoplotting instrumentation. Photogrammetric optics. The metric camera. Photographic processes. [26L, 39P]

Prerequisite: SUR201H

SUR251H Survey Law I: Law and the Legal System

Legal history; legal systems and institutions; introduction to English law in general, with emphasis on land law; legal proceedings; the law of professional practice. [39L]

Prerequisite: INE203H/205H/WRI203H/205H/ENG100Y/103Y

We specifically prefer students to take WRI203H or 205H as most pertinent and valuable instruction for this Programme.

SUR261H Spatial Data Management and Representation

An overview for all surveying and other resource sciences students which introduces both fundamental concepts of computing systems and practical knowledge relating to different hardware and software environments. Thematic mapping and cartographic analysis as part of data manipulation and graphic display. [26L, 26P]

Exclusion: SUR362H

Prerequisite: SUR210H/familiarity with use of the personal computer, and P.I.

SUR311H Survey Analysis I

The statistical theory of measurement; precision and accuracy; variance-covariance propagation; error ellipses and ellipsoids and their statistical properties. Pre-analysis of measurements. The adjustment of observations; parametric, conditional and combined least squares procedures, with applications to surveying problems. [26L, 26P]

Prerequisite: SUR202H,210H,STA202H/242Y

SUR312H Survey Analysis II

Survey control systems. Statistical analysis of survey data including estimation of variance components; regression analysis; models; filters; adjustment of large survey networks; estimation of reliability and accuracy of survey systems. [26L, 26P]

Prerequisite: SUR311H

SUR320H Introduction to Geodetic Methods

Concepts of geodesy and the evolution of geodetic methodology; basic principles of modern geodetic techniques; control surveys in the context of recent advances in satellite methods of positioning; overview of geodetic methods for projects of high accuracy standards on limited sites and for monitoring time-related changes. [26L, 26T]

Prerequisite: SUR203H,210H

SUR321H Geodesy I

Figure of the earth, gravitational potential, gravity field, principles of satellite and inertial positioning systems, levelling and geopotential numbers, tidal effects. [26L, 26P]

Prerequisite: SUR320H

SUR322H Geodesy II

Reduction of geodetic observations, horizontal, vertical and three-dimensional networks, map projections, gravimetry, accuracy assessment. [26L, 26P]

Prerequisite: SUR321H

SUR325H Geodetic Astronomy

The celestial sphere and its coordinate systems, variations in celestial coordinates, time systems, star catalogues and instrumentation. Determination of astronomic azimuth, latitude and longitude. [26L, 39P]

Prerequisite: SUR204H,210H and P.I.

SUR336H Photogrammetry II

Stereomodel orientation. Stereoplotting instrumentation. Camera calibration. Image coordinate mensuration and preprocessing. Interior and exterior orientation of the metric photograph; the projective model and collinearity equations. Analytical procedures. Project planning. [26L, 39P]

Prerequisite: SUR235H/335H

Corequisite: SUR311H

SUR341H Land Management I: Planning and Development

Fundamentals of obtaining site information to provide the framework for land development. Elements of the municipal infrastructure. Legal and engineering aspects of land drainage. [26L, 13T]

Prerequisite: GGR117Y,SUR202H,352H

Exclusion: SUR241H/346H

SUR352H Survey Law II: Real Property Law

Real property law; land survey systems; title and deed registration systems. [39L]

Prerequisite: SUR251H

SUR353H Survey Law III: Boundary Law
Boundaries; land parcel descriptions;
principles of evidence. [39L]
Prerequisite: SUR352H

SUR361H Mapping and Charting
Figure of the earth. Projections and grids;
classification and mapping. Map content.
Review and processing of data. Cartographic
and reproduction techniques. [26L, 26P]
Prerequisite: SUR203H

SUR391H Special Topics in Surveying Science
Studies of selected topics in Surveying
Science not covered in the regular courses.
Prerequisite: Permission of instructor

SUR392H Special Topics in Surveying Science
Studies of selected topics in Surveying
Science not covered in the regular courses.
Prerequisite: Permission of instructor

SUR405H Field Survey Projects
An intensive session of 144 hours in the field
covering various aspects of survey project
design, data acquisition, data reduction and
layout.
Prerequisite: SUR204H/320H, and
completion of the first three years of the
Surveying Science specialist programme.

SUR423H Applications of Geodetic Methodology
Applications in surveying, geophysics and
engineering. Criteria for selection of method,
design and implementation of sample
projects, assessment of results. [26L, 26P]
Prerequisite: SUR322H

SUR442H Land Management II: Site Development
(formerly SUR443H)
Development of land within the concept of the
Official Plan. Subdivisions, condominiums and
general site development and approval
procedures. [26L, 13P]
Prerequisite: SUR341H
Exclusion: SUR346H/443H

SUR454H Survey Law IV: Records and Administration
Advanced studies in Canadian survey law;
legal provisions for surveys and records; land
information systems and cadastre; projects,
special research and discussion topics. [39L]
Prerequisite: SUR353H

SUR455H Survey Law Seminar
Research in some aspect of law related to
surveying; a topic of individual selection for
study under supervision, oral presentation
before the class and submission of a
professional paper. [39S]
Prerequisite: SUR353H and specific P.I.

SUR456H Law of the Sea and Offshore Boundaries
International law related to maritime
jurisdictions; development of the Law of the
Sea and the United Nations Conventions;
Canadian Territorial Sea and Fishing Zones
Act; Canada Lands Surveys Act. Technical
aspects of the delimitation of maritime
boundaries. [26L, 13T]
Prerequisite: SUR251H and specific P.I.

SUR458H Professional Affairs
Perspective on the professions: professional
charter by statute; professional ethics,
responsibility and liability. Fundamentals of
business management; contract law;
negligence law. Court procedure and expert
witness. [39L]
Prerequisite: SUR251H, completion of the
first three years of the Surveying Science
specialist programme, and P.I.

SUR463H Spatial Information Systems
Data structures for spatial information
systems. Hardware and software for
geographical and land information systems.
Spatial search and geoprocessing. An
introduction to graph theory and topology.
The use of artificial intelligence language.
[26L, 26T]
Prerequisite: SUR261H/362H or any data
management or information science course
approved by instructor.

SUR471H Hydrographic Surveying I
Underwater acoustics as related to depth
measurement. Positioning at sea. Sounding
data collection and processing. Chartwork,
piloting and navigation aids. [26L, 39P]
Prerequisite: SUR311H, 320H.

SUR472H Hydrographic Surveying II
Tidal theory, water transport and dynamics of
the oceans. Vertical datums. Sweeping
operations and use of side-scan sonar.
Physical oceanography. Geological surveys
and measurement of geophysical parameters.
[26L, 39P]
Prerequisite: SUR471H

SUR495H Survey Project and Seminar
Participation in a comprehensive survey
project under supervision of staff, including
oral presentation of project material before the
class and preparation of a final written report.
[39S]
Prerequisite: SUR405H

Faculty Advisor: Professor P. Silcox

WDW260Y Organizational Behaviour

An introduction to the nature of organizations and the behaviour of people within organizations. Three major topic areas are covered:

- a) Individuals and Groups in Organizations: motivation, job satisfaction, leadership, group and intergroup behaviour;
- b) Organization Structure and Design: bureaucracy, classical theories of management, contingency theories of design;
- c) Improving Employee Performance and Organizational Effectiveness: communication, decision-making, performance appraisal, reward systems, work design, organizational change. Not recommended for students in the Bachelor of Commerce programme.

Exclusion: COM362H, 363H, WDW103Y

Prerequisite: Four courses including one 100-series course in ECO/HIS/PHI/PHL/POL/PSY/SOC

G. Allen, B.A., M.A., Ph.D.

P. Dimitroff, B.A., M.A.

M. Procter, B.A., M.A., Phil.M, Ph.D.

P. Saunders, B.A., M.A., Ph.D.

Discipline Representative and

Faculty Advisor: Dr. P. Saunders

Telephone: 828-3858

The term "Professional Writing" refers to those documents currently written by business personnel, scientists, technologists, and documentation specialists. Among these forms are reports, proposals, journal articles, newsletters, manuals, memoranda and letters. During the course of the programme, students are encouraged to explore the application of computer technology to the design of these documents.

Students from all disciplines of study can expand their career options and gain a "competitive edge" over graduates from other Universities by taking a minor programme (six half courses) in Professional Writing. (See Section 7).

*Courses designated by an asterisk require that the student submit a ballot. Students should see a representative in room 3091 or telephone 828-3858 for an appointment before the end of the Spring term.

***WRI203H Expressive Writing**

(Formerly INE203H)

This course offers theory and practice in expressive prose, the most basic prose mode. Expressive writing emphasizes the writer's self-expression. Writers learn to select styles and forms appropriate to their personal meaning and purpose. The course covers writing and editing skills and communication techniques. Weekly assignments demonstrate how expressive elements operate in various prose forms: personal narratives, arguments, evaluations, interviews, reports. [26L, 13P]

WRI205H Writing for Business

(Formerly INE203H)

Aimed at students who will be entering the business world, and who already write passably, this half-course will explore the principles and practice of effective writing, with special emphasis on business correspondence and reports. There will be frequent writing exercises. A screening test will be given at the beginning of the course. [26L, 13P]

***WRI301H The Genres of Scientific and Technical Writing**

(Formerly INE301H)

Students will examine current theories of rhetoric for science and technology and explore how our culture uses language and written discourse to meet its goals of science and production. Readings will include writings by Bacon, Kuhn, Toulmin and Popper. A variety of technical documents will be examined and written. Students will develop analytical skills and improve their technical writing skills. [26L]

Prerequisite: WRI205H/203H

***WRI303H Specialized Prose**

Advanced theory and practice of specialized prose is examined. The distinctive features and standards associated with persuasive, expressive, scientific, technical and journalistic prose will be discussed. Students will be able to work in areas of special interest. [26L]

Prerequisite: WRI203H

***WRI305H Persuasion, Business Writing and Computer Technology**

(Formerly INE305H)

The nature of persuasion is examined through various genres of business writing - sales literature, informative documentation and proposals. An exploration of the rhetorical tradition and the communication process form the foundation of study as students learn to use language, logic, symbols, signs and principles of design. The contribution which computer technology has made to the rhetoric of business documentation is highlighted as students create persuasive documents, newsletters, reports and proposals. This course will help students develop analytical skills and improve their writing.

Prerequisite: WRI205H/203H

***WRI315H Research Perspectives in Professional Writing**

Current research perspectives and methodologies employed by scholars in the emerging field of Professional Writing are examined. Students will examine samples from a growing body of research. Each student will conduct original research using one of the research designs examined. [26L, 13P]

Prerequisite: WRI205H/203H

9 Rules and Codes

Term Work

Both essays (or equivalent work) and examinations (including term tests) are normally required for standing in courses. In courses where only one form of evaluation is used, a single piece of work should not normally count for all of the final mark. Self-evaluation by individual students or groups of students is not permissible unless the specific consent of the Committee on Academic Standards is received.

As early as possible in each course and no later than the last date to add or withdraw from courses, the instructor must announce in a regularly scheduled class the methods by which student performance must be evaluated, and their relative weight in the final mark, including any discretionary factor. These methods must be in accord with applicable University and Faculty policies.

Once the weight of each component of the course work is given, it may not be changed unless approved by a majority of the students present and voting at a regularly scheduled meeting of the class.

Instructors MUST assign, grade and return at least one significant assignment as early as possible, and at the latest BEFORE the final date to withdraw without academic penalty.

After the last date to withdraw from the course without academic penalty, no change in weighting may take place unless there is unanimous consent of all students present and voting, and notice must be given at the regularly scheduled class meeting previous to that at which the issue is to be raised.

No term test or combination of term tests held in the last two weeks of classes at the end of term may have a total weight greater than 25% of the final mark.

All term work must be submitted *on or before the last day of classes* in the course concerned, unless an earlier date is specified by the instructor. Students who for reasons beyond their control wish to seek an extension of this deadline must consult the College Registrar and petition if necessary.

All term tests must be held before the last day of classes, and no term test may be scheduled during the December Examination Period, the "Reading Week" in February, or the study period preceding the Final Examination Period in April.

All written work which has been evaluated should be returned with such detailed comment as the instructor deems appropriate, and time made available for discussion of it. Unclaimed term work must be kept by the instructor for six months beyond the end of the course.

Faculty Final Examinations

A Faculty final examination common to all sections of the course and counting for between one-third and two-thirds of the final mark must be held in each 100-series course, unless exemption has been granted by the Committee on Academic Standards. In 200-, 300- and 400-series courses, the Departments will decide whether or not an examination is appropriate, and report to the Committee.

Final examinations are held at the end of both terms in each session. Students who make plans which may interfere with writing examinations do so at their own risk. *No special arrangements will be made in the event of conflicts nor will deferred examinations be allowed.* Information regarding dates and times of examinations will not be given by telephone.

Students taking courses during the day may be required to write evening examinations, and students taking evening courses may be required to write examinations during the day.

The relative value of each part of a written examination must be indicated on the question paper.

The ratio of term marks to examination mark will be the same for all sections of multi-section courses that have final examinations.

Rules for the Conduct of Examinations

1. No person will be allowed in an examination room during an examination except the candidates concerned and those supervising the examination.
2. Candidates must appear at the examination room at least twenty minutes before the commencement of the examination.
3. Candidates shall bring their signed student cards and place them in a conspicuous place on their desks. Candidates registered in the Faculty of Arts and Science must have a student registration card bearing their photograph.
4. Bags and books are to be deposited in areas designated by the Chief Presiding Officer and are not to be taken to the examination desk or table. Students may place their purses on the floor under their chairs.
5. The Chief Presiding Officer has authority to assign seats.
6. Candidates shall not communicate with one another in any manner whatsoever during the examination.
7. No materials shall be brought into the room or used at an examination except those authorized by the Chief Presiding Officer or Examiner.

8. Candidates who bring any unauthorized material into an examination room or who assist, or obtain assistance from other candidates or from any unauthorized source, are liable to penalties under the Code of Behaviour, including the loss of academic credit and expulsion.
9. In general, candidates will not be permitted to enter an examination room later than fifteen minutes after the commencement of the examination, nor to leave except under supervision until at least half an hour after the examination has commenced.
10. Candidates shall remain seated at their desks during the final ten minutes of each examination.
11. At the conclusion of an examination, all writing shall cease, and the Chief Presiding Officer may refuse to accept the papers of candidates who fail to observe this requirement.
12. Examination books and other material issued for the examination shall not be removed from the examination room except by authority of the Chief Presiding Officer.
13. Smoking in the examination room is not permitted.

Outside Centre Fee

Students granted permission to write an examination at a centre outside Toronto must submit with their application a fee of \$27.00 for each examination to be written plus any costs for invigilation, postage etc. charged by the centres involved. Such permission is granted only in the most extreme circumstances.

Checking of Marks

All requests for re-reading of examinations, checking of marks and photocopies of examinations must be filed within six months of the final examination period. After that date, the examinations are destroyed.

Re-Reading of Examination

- a) Obtain a photocopy of the examination from the Registrar's office. These are available after the release of final marks. There is a fee of \$11.50 for each examination.
- b) Complete a Request for Remark of Final Examination.
- c) In completing the request, demonstrate that your answer is substantially correct, using evidence other than your own opinion, such as: lecture notes, textbooks, similar questions in tests, etc.

- d) If the Registrar is satisfied that you have made a case for remarking, your form will be attached to the original examination and sent to the Department. If you have not made a valid case, no further action will be taken unless you request that the matter be referred to the Committee on Standing. They will rule only on whether or not you have made a satisfactory case for rereading.

Clerical Check of Marks

- a) Complete a Request for Clerical Check of Marks and submit it with the fee of \$11.50.
- b) Demonstrate by your calculation and/or explanation where you think the error has been made.
- c) If the Registrar is satisfied that you have a valid case, the form will be sent to the Department with any relevant documents. They will check that all answers have been marked, all term work has been accounted for and that the marks have been added correctly. **THEY WILL NOT REREAD THE PAPER NOR REMARK TERM WORK.**

If your mark is changed as a result of either of these requests, the \$11.50 fee will be refunded.

The following are the possible results of your requests:

- the mark may be changed upward,
- there will be no change in the mark,
- if another error is detected during the clerical check or rereading, the mark may be lowered.

Policy on Access to Student Academic Records

1. Preamble

- (a) Academic records of students are ultimately the property of the University, and it is the responsibility of the University to establish overall University policy in this area. This policy establishes university-wide aims, objectives, criteria and procedures which shall apply to the academic records of students of academic divisions of the University.
- (b) The purpose of this policy is to combine consistency with flexibility in such a way as to ensure that:
- (i) Students, alumni and former students are allowed as great a degree of access to their own academic records as is academically justifiable and administratively feasible.
 - (ii) A student's right to privacy in relation to his or her academic records is safeguarded as far as both internal university access and external public access are concerned.
 - (iii) There will be basic university-wide consistency in the kinds of information collected, recorded, filed and made available.
 - (iv) In keeping with the pluralistic nature of the University academic divisions may retain some flexibility in the implementation and application of the policies established within this document.
- (c) Individual divisional regulations and procedures on access to student academic records, including the statement in the divisional calendar concerning such, shall be reported by the Provost to the Committee on Academic Policy and Programs. Any subsequent revisions shall also be reported.
- (d) This policy supersedes the 1979 access policy for undergraduate student records and the 1981 access policy for graduate student records.

2. For the purposes of this policy:

- (a) "student" means any person registered at the University for full-time or part-time study in a program that leads to a degree or post-secondary diploma or certificate of the University or in a program designated as a program of post-secondary study at the University by the Governing Council or other University body having delegated authority. On the date of an enquiry or request relevant

to this policy, persons who have been registered within a period of two calendar years shall be included in the provisions which relate to "students".

- (b) "alumnus or alumna" means any person who has received a degree or post-secondary diploma or certificate from the University, or any person who has completed one year of full-time studies or the equivalent thereof as determined by the Governing Council, towards such a degree, diploma or certificate, and is no longer registered at the University.
- (c) "former student" means any person who is not a student or an alumnus or alumna who has been registered at the University in a program as defined in Section 2 (a), and is no longer registered at the University.
- (d) "academic division" means a college, school, institute, faculty or other division of the University that has academic autonomy (i.e. the right to administer its own degrees, diplomas, certificates and other programs of study), subject only to the authority of the Vice-President and Provost, the President and the Governing Council.

3. Definition of the Official Student Academic Records

The official student academic record refers to information relating to a student's admission to and academic performance at this University.

The "official student academic record" shall contain:

- (a) (i) Personal information which is required in the administration of official student academic records such as name, student number, citizenship, social insurance number.
- (ii) Registration and enrolment information.
- (iii) Results for each course and academic period.
- (b) (i) Narrative evaluations of a student's academic performance subsequent to his or her admission, used to judge his or her progress through an academic program.
- (ii) Basis for a student's admission such as the application for admission and supporting documents.
- (iii) Results of petitions and appeals filed by a student.
- (iv) Medical information relevant to a student's academic performance which has been furnished at the request or with the consent of the student concerned.

- (v) Letters of reference which may or may not have been provided on the understanding that they shall be maintained in confidence.

- (vi) Personal and biographical information such as address and telephone number.

The "official student academic record" shall be maintained by the University. For each type of information, academic divisions shall designate which document, form or medium contains the official version and how official copies of such information will be identified.

4. Access to Official Student Academic Records

(a) Access by a student

- (i) A student may examine and have copies made of his or her official student academic record defined in Section 3 above, with the exception of those portions of the record which comprise letters of reference (Section 3(b)(v)) which have been provided or obtained on the expressed or implied understanding that they shall be maintained in confidence. A student may, however, be advised of the identity of the authors of any confidential letters contained in his or her official academic record.
- (ii) A student's request to examine a part of his or her official student academic record shall be made in writing and shall be complied with by the responsible authorities within a division. Such compliance shall occur within 30 days of receipt of the request, or within such lesser period as a division may determine.
- (iii) A student has the right to challenge the accuracy of his or her official student academic record with the exception of the material specifically excluded in Section 4(a)(i) and to have his or her official student academic record supplemented with comments so long as the sources of such comments are identified and the official student academic record remains securely within the custody of the academic division. Reference to such comments does not appear on reports such as transcripts or statements of results.

- (iv) It is assumed that all documents relating to petitions and appeals (Section 3(b)(iii)) and not provided on the understanding that they shall be maintained in confidence will be retained within a division, and when needed by a student, will be made freely available. In addition, The Statutory Powers Procedure Act, 1971 of Ontario requires that where the good character, propriety of conduct or competence of a party is in issue in any proceedings in a tribunal to which the Act applies (such as the Academic Appeals Board of the Governing Council), the party is entitled to be furnished prior to the hearing with "reasonable information" of any allegations with respect thereto.

(b) *Access by Alumni and Former Students*

- i) An alumnus or alumna or a former student may examine and have copies made of the portion of his or her official student academic record as defined in Section 3(a) above.
- (ii) A request from an alumnus or alumna or a former student to examine the portion of the official student academic record as defined in Section 3(a) shall be made in writing and shall be complied with by the responsible authorities within a division. Such compliance shall occur within 30 days of receipt of the request, or within such lesser period as a division may determine.
- (iii) An alumnus or alumna or a former student shall have the right to challenge the accuracy of his or her official student academic record only under such terms and conditions as the academic division may determine and publish in the divisional calendar.

(c) *Access by University Staff and Members of Official University and Divisional Councils and Standing Committees*

Members of the teaching and administrative staff of the University and members of official University and divisional councils and committees shall have access to relevant portions of an official student academic record for purposes related to the performance of their duties. A staff member requesting information must have a legitimate need to have the requested information for the effective functioning of the position or office.

Access to medical information as defined in Section 3(b)(iv) shall be granted to members of the teaching and administrative staff only with the prior expressed or implied consent of the student and, if applicable, in the case of a medical assessment, the originator (physician, etc.) of such.

The Department of Alumni and Community Relations shall have access to appropriate personal information on students and alumni for the purpose of maintaining contact with alumni.

(d) *Access by University Campus Organizations*

Recognized campus organizations in the University of Toronto shall have access to the information referred to in Section 3(a)(ii) as well as to the sessional address and telephone number of students named by that organization for the legitimate internal use of that organization. The Students' Administrative Council, Graduate Students' Union, Association for Part-time Undergraduate Students, and The Newspaper shall be entitled to publish and distribute within the University community a University-wide directory of students (including undergraduate, graduate, full-time and part-time) giving the sessional address and telephone number of students as long as there is a realistic provision for students to decline to consent to the disclosure of that information.

Names and addresses of students will also be provided to recognized campus organizations for the purpose of distributing information when all of the following conditions are met:

- The name and address information is not released to a third party.
- The name and address information is not used for commercial purposes.
- The organization proposes to distribute information which, in the opinion of the Assistant Vice-President (Planning) and University Registrar, the University would be willing to distribute if reimbursed by the organization.
- The information to be distributed is intended to provide information about the University and is not primarily advertisements for non-University organizations.
- The campus organization agrees to use the name and address information only for the specific purpose for which it was provided.

(e) *Access by Others*

- (i) By the act of registration, a student gives implicit consent for a minimal amount of information to be made freely available to all enquirers:
 - the academic division(s), degree program(s) and the session(s) in which a student is or has been registered,
 - degree(s) received and date(s) of convocation.
- (ii) Any other information contained in the official student academic record (including any comments generated under Section 4(a)(iii) but with the exception of the material specifically excluded in Section 4(a)(i), shall be released to other persons and agencies only with the student's prior expressed written consent, or on the presentation of a court order, or in accordance with the requirements of professional licensing or certification bodies, or the Ministry of Colleges and Universities for an annual enrolment audit, or otherwise under compulsion of law. Requests granted to any persons or agencies outside the University for access to a student's academic record shall be kept on file within a division. The release of the information concerning alumni and former students contained in the portions of the academic record as defined in Section 3(a)(i) shall also be governed by the above provisions.
- (iii) General statistical material drawn from academic records not disclosing the identities of students, alumni and former students may be released for research and informational purposes authorized by the University by the academic division maintaining these records.
- (iv) In the event that a student, alumnus or alumna or a former student is deceased, the executors of his or her estate shall have access to the official student academic record under the same terms as would the individual if he or she were still living.

(f) *Refusal of Access*

The University reserves the right to withhold access to the statements of results and transcripts of students, alumni and former students who have outstanding debts or obligations to the University in accordance with the Policy on Academic Sanctions for Students Who Have Outstanding University Obligations. The University may also choose not to release the official diploma to such persons nor to provide written or oral certifications of degree on their behalf.

5. Custody and Retention of Official Student Academic Records

- (a) Academic records of students are normally under the custodial responsibility of the academic division. Every academic division maintaining official student academic records shall draw up plans for the eventual disposition of their records in consultation with the University Archivist and in accordance with an approved records schedule which is in compliance with this policy.
- (b) Those portions of the official student academic record as defined in Section 3(a) shall be maintained permanently. Each academic division's records schedule shall specify the document, form or medium in which these records will be maintained.
- (c) Official student academic records preserved in the University Archives because of their archival value shall become open to researchers authorized by the University seventy-five years after a student has ceased to be registered.

6. The University's Responsibilities with Reference to the Official Academic Records of Students, Alumni and Former Students

- (a) Students shall be informed of University policy and divisional procedures with respect to their official student academic records.
- (b) Academic divisions, administrative divisions which handle student academic records and campus organizations shall develop administrative procedures in support of this policy.
- (c) Academic records shall be kept at all times under appropriate security.

Personal Information

Personal information provided at the time of admission is verified and brought up to date by the Office of the Registrar at the time of registration in subsequent sessions. This information is a vital part of the student's official University record and is used to issue statements of results, transcripts, graduation information, diplomas and other official documents. The University is also required by law to collect certain information for the Federal and Provincial Governments; this is reported only in aggregate form and is considered confidential by the University. Any change in the following must therefore be reported immediately to the Office of the Registrar:

1. Legal name
2. Permanent or home address and telephone number
3. Sessional address and telephone number
4. Social Insurance Number
5. Citizenship status in Canada
6. Marital Status.

Student Card

The student card is a wallet-sized card bearing the student's photograph, used for identification purposes within the University, such as evidence of registration in the Faculty and in a particular College, participation in student activities, Athletic Association privileges, and identification at Faculty examinations.

The loss of the student card must be reported promptly to the Office of the Registrar, and the card must be surrendered if a student withdraws from the University or transfers to another College or Faculty. There is a fee of \$6.00 for replacement of lost cards.

Code of Behaviour on Academic Matters

The Governing Council of the University of Toronto has approved a *Code of Behaviour* which sets out clearly the standard of conduct in academic matters expected of members of the University community. The Code is enforced by the Provost and the Disciplinary Tribunal. Below are extracts from the Code, the full text of the Code is available from the Faculty Office and the Office of the Registrar.

CODE OF BEHAVIOUR ON ACADEMIC MATTERS

B. ACADEMIC OFFENCES

The University and its members have a responsibility to ensure that a climate that might encourage, or conditions that might enable, cheating, misrepresentation or unfairness not be tolerated. To this end all must acknowledge that seeking credit or other advantages by fraud or misrepresentation, or seeking to disadvantage others by disruptive behaviour is unacceptable, as is any dishonesty or unfairness in dealing with the work or record of a student.

B.I.

1. It shall be an offence for a student intentionally:
 - (a) to forge or in any other way alter or falsify any document or evidence required for admission to the University, or to utter, circulate or make use of any such forged, altered or falsified document, whether the record be in print or electronic form;
 - (b) to use or possess an unauthorized aid or aids or obtain unauthorized assistance in any academic examination or term test or in connection with any other form of academic work;
 - (c) to personate another person at any academic examination or term test or in connection with any other form of academic work;
 - (d) to represent as one's own any idea or expression of an idea or work of another in any academic examination or term test or in connection with any other form of academic work, i.e., to commit plagiarism (for a more detailed account of plagiarism, see Appendix "A");
 - (e) to submit for credit, without the knowledge and approval of the instructor to whom it is submitted, any academic work for which credit has previously been obtained or is being sought in another course or program of study in the University or elsewhere;
 - (f) to submit for credit any academic work containing a purported statement of fact or reference to a source which has been concocted.

2. It shall be an offence for a faculty member intentionally:

- (a) to approve any of the previously described offences;
- (b) to evaluate an application for admission or transfer to a course or program of study by other than duly established and published criteria;
- (c) to evaluate academic work by a student by reference to any criterion that does not relate to its merit, to the time within which it is to be submitted or to the manner in which it is to be performed.

3. It shall be an offence for a faculty member and student alike intentionally:

- (a) to forge or in any other way alter or falsify any academic record, or to utter, circulate or make use of any such forged, altered or falsified record, whether the record be in print or electronic form;
- (b) to cause by action, threat or otherwise in a classroom, laboratory or examination room a disturbance, which the member knows or ought reasonably to know, obstructs the teaching of a course or the holding of a test or examination.

4. The following are offences to the extent that they relate to the teaching and learning relationship. It shall be an offence for a faculty member and student alike intentionally:

- (a) to remove or copy or alter stored information such as books, film, data files or programs from a library, computer or other information storage, processing or retrieval system or its peripheral communications devices without proper authorization; or to mutilate, misplace, misfile, install or render inoperable any such information, program, system or device, or in any other way to deprive immediately or at some point in the future without authorization another member or members from using or having access to any such resource;
- (b) to use in a substantial way any information storage, processor or retrieval facility such as a library, computer, telephone, network or telecommunications system, or facsimile or photocopying equipment, or similar equipment, for any other purpose than that for which privileges of use or access have been granted;
- (c) to access any University computer, library, or other information storage, processing or retrieval system or any personal academic file without proper authorization.

5. A graduate of the University may be charged with any of the above offences committed intentionally while he or she was an active student, when, in the opinion of the Provost, the offence, if detected, would have resulted in a sanction sufficiently severe that the degree would not have been granted at the time that it was.

B.II. Parties to Offences

1. (a) Every member is a party to an offence under this Code who intentionally:

- (i) actually commits it;
- (ii) does or omits to do anything for the purpose of aiding or assisting another member to commit the offence;
- (iii) does or omits to do anything for the purpose of aiding or assisting any other person who, if that person were a member, would have committed the offence;
- (iv) abets, counsels, procures, or conspires with another member to commit or be a party to an offence; or
- (v) abets, counsels, procures, or conspires with any other person who, if that person were a member, would have committed or have been a party to the offence.

(b) Every party to an offence under this Code is liable upon admission of the commission thereof, or upon conviction, as the case may be, to the sanctions applicable to that offence.

2. Every member who, having an intent to commit an offence under this Code, does or omits to do anything for the purpose of carrying out that intention (other than mere preparation to commit the offence) is guilty of an attempt to commit the offence and liable upon conviction to the same sanctions as if he or she had committed the offence.

3. When a group is found guilty of an offence under this Code, every officer, director or agent of the group, being a member of the University, who directed, authorized or participated in the commission of the offence is a party to and guilty of the offence and is liable upon conviction to the sanctions provided for the offence.

C. PROCEDURES IN CASES INVOLVING STUDENTS

At both divisional level and the level of the University Tribunal, the procedures for handling charges of academic offences involving students reflect the gravity with which the University views such offences. At the same time, these procedures and those which ensure students the right of appeal represent the University's commitment to fairness and the cause of justice.

C.I.(a) Divisional Procedures

Note: Where student commits an offence, the faculty in which the student is registered has responsibility over the student in the matter. In the case of Scarborough and Erindale colleges, the college is deemed to be the faculty.

Not proceedings of tribunal

1. No hearing within the meaning of Section 2 of the *Statutory Powers Procedure Act* is required for the purposes of, or in connection with, any of the discussions, meetings and determinations referred to in Section C.I.(a), and such discussions, meetings and determinations are not proceedings of the Tribunal.

Instructor's duties

2. Where an instructor has reasonable grounds to believe that an academic offence has been committed by a student, the instructor shall so inform the student immediately after learning of the act or conduct complained of, giving reasons, and invite the student to discuss the matter. Nothing the student says in such a discussion may be used or receivable in evidence against the student.
3. If after such discussion, the instructor is satisfied that no academic offence has been committed, he or she shall so inform the student and no further action shall be taken in the matter by the instructor, unless fresh evidence comes to the attention of the instructor, in which case he or she may again proceed in accordance with subsection 2.

Instructor's report to the department chair

4. If after such discussion, the instructor believes that an academic offence has been committed by the student, or if the student fails or neglects to respond to the invitation for discussion, the instructor shall make a report of the matter to the department chair or through the department chair to the dean. (See also Section C.I.(b)1.)

Dean's or chair's meeting with student

5. When the dean or the department chair, as the case may be, has been so informed, he or she shall notify the student in writing accordingly, provide him or her with a copy of the Code and

subsequently afford the student an opportunity for discussion of the matter. In the case of the dean being informed, the chair of the department and the instructor shall be invited by the dean to be present at the meeting with the student. The dean shall conduct the interview.

Dean's warning; admissions used at a hearing

6. Before proceeding with the meeting, the dean shall inform the student that he or she is entitled to seek advice, or to be accompanied by counsel at the meeting, before making, and is not obliged to make, any statement or admission, but shall warn that if he or she makes any statement or admission in the meeting, it may be used or receivable in evidence against the student in the hearing of any charge with respect to the offence or alleged offence in question. The dean shall also advise the student, without further comment or discussion, of the sanctions that may be imposed under Section C.I.(b), and that the dean is not obliged to impose a sanction but may instead request that the Provost lay a charge against the student. Where such advice and warning have been given, the statements and admissions, if any, made in such a meeting may be used or received in evidence against the student in any such hearing.

No further action

7. If the dean on the advice of the department chair and the instructor, or if the department chair, on the advice of the instructor, subsequently decides that no academic offence has been committed and that no further action in the matter is required, the student shall be so informed in writing and the student's work shall be accepted for normal evaluation or, if the student was prevented from withdrawing from the course by the withdrawal date, he or she shall be allowed to do so. Thereafter, the matter shall not be introduced into evidence at a Tribunal hearing for another offence.

Imposition of sanction

8. If the student admits the alleged offence, the dean or the department chair may either impose the sanction that he or she considers appropriate under Section C.I.(b) or refer the matter to the dean or Provost, as the case may be, and in either event shall inform the student in writing accordingly. No further action in the matter shall be taken by the instructor, the department chair or the dean if the dean imposes a sanction.

Student may refer matter

9. If the student is dissatisfied with a sanction imposed by the department chair or the dean, as the case may be, the student may refer the matter to the dean or Provost, as the case may be, for consideration.

Referral of matter to tribunal

10. If the student does not admit the alleged offence, the dean may, after consultation with the instructor and the department chair, request that the Provost lay a charge against the student. If the Provost agrees to lay a charge, the case shall then proceed to the Trial Division of the Tribunal.

Decanal procedures at trial

11. Normally, decanal procedures will not be examined in a hearing before the Tribunal. A failure to carry out the procedures referred to in this Section, or any defect or irregularity in such procedures, shall not invalidate any subsequent proceedings of or before the Tribunal, unless the chair of the hearing considers that such failure, defect or irregularity resulted in a substantial wrong, detriment or prejudice to the accused. The chair will determine at the opening of the hearing whether there is going to be any objection to defect, failure or irregularity.

Student's standing pending disposition

12. No degree, diploma or certificate of the University shall be conferred or awarded, nor shall a student be allowed to withdraw from a course from the time of the alleged offence until the final disposition of the accusation. However, a student shall be permitted to use University facilities while a decision is pending, unless there are valid reasons for the dean to bar him or her from a facility. A student upon whom a sanction has been imposed by the dean or the department chair under Section C.I.(b) or who has been convicted by the Tribunal shall not be allowed to withdraw from a course so as to avoid the sanction imposed.

Recording cases; referral to records; reporting cases; advice on cases

13. A record of cases disposed of under Section C.I.(a) and of the sanctions imposed shall be kept in the academic unit concerned and may be referred to by the dean in connection with a decision to prosecute, or by the prosecution in making representations as to the sanction or sanctions to be imposed by the Tribunal, for any subsequent offence committed by the student. Information on such cases shall be available to other academic units upon request and such cases shall be reported by the dean to the Secretary of the Tribunal for use in the

Provost's annual report to the Academic Board. The dean may contact the Secretary of the Tribunal for advice or for information on cases disposed of under Section C.II. hereof.

Analogy to faculty member

14. Where a proctor or invigilator, who is not a faculty member, has reason to believe that an academic offence has been committed by a student at an examination or test, the proctor or invigilator shall so inform the student's dean or department chair, as the case may be, who shall proceed as if he or she were an instructor, by analogy to the other provisions of this section.

Analogy to procedures

15. In the case of alleged offences not covered by the above and not involving the submission of academic work, such as those concerning forgery or uttering, library or computer material or library or computer resources, and in cases involving cancellation, recall or suspension of a degree, diploma or certificate, the procedure shall be regulated by analogy to the other procedures of this section.

C.I.(b) Divisional Sanctions

Department chair's duties

- 1) In an assignment worth 10 percent or less of the final grade, the department chair may handle the matter if:
- (i) the student admits guilt; and
 - (ii) the assignment of a penalty is limited to at most a mark of zero for the piece of work.

If the student does not admit guilt, or if the department chair chooses, the matter shall be brought before the dean.

Sanctions listed

2. One or more of the following sanctions may be imposed by the dean where a student admits to the commission of an offence:
- (a) a written reprimand;
 - (b) a written reprimand and, with the permission of the instructor, the resubmission of the piece of academic work, in respect of which the offence was committed, for evaluation. Such a sanction shall be imposed only for minor offences and where the student has committed no previous offence;
 - (c) assignment of a grade of zero or a failure for the piece of academic work in respect of which the offence was committed;
 - (d) assignment of a penalty in the form of a reduction of the final grade in the course in respect of which the offence was committed;

- (e) denial of privileges to use any facility of the University, including library and computer facilities;
- (f) a monetary fine to cover the costs of replacing damaged property or misused supplies in respect of which the offence was committed;
- (g) assignment of a grade of zero or a failure for the course in respect of which the offence was committed;
- (h) suspension from attendance in a course or courses, a program, an academic division or unit, or the University for a period of not more than twelve months. Where a student has not completed a course or courses in respect of which an offence has not been committed, withdrawal from the course or courses without academic penalty shall be allowed.

Recording on academic transcript

3. The dean shall have the power to record any sanction imposed on the student's academic record and transcript for such length of time as he or she considers appropriate. However, the sanctions of suspension or a notation specifying academic misconduct as the reason for a grade of zero for a course shall normally be recorded for a period of five years.

Provost's guidelines

4. The Provost shall, from time to time, indicate appropriate sanctions for certain offences. These guidelines shall be sent for information to the Academic Board and attached to the Code as Appendix "C".

C.II.(b) Tribunal Sanctions

Sanctions listed

1. One or more of the following sanctions may be imposed by the Tribunal upon the conviction of any student:
 - (a) a written reprimand;
 - (b) a written reprimand and, with the permission of the instructor, the resubmission of the piece of academic work, in respect of which the offence was committed, for evaluation. Such a sanction shall be imposed only for minor offences and where the student has committed no previous offence;
 - (c) assignment of a grade of zero or a failure for the piece of academic work in respect of which the offence was committed;
 - (d) assignment of a penalty in the form of a reduction of the final grade in the course in respect of which the offence was committed;
 - (e) denial of privileges to use any facility of the University, including library and computer facilities;

- (f) a monetary fine to cover the costs of replacing damaged property or misused supplies in respect of which the offence was committed;
- (g) assignment of a grade of zero or a failure for any completed or uncompleted course or courses in respect of which any offence was committed;
- (h) suspension from attendance in course or courses, a program, an academic unit or division, or the University for such a period of time up to five years as may be determined by the Tribunal. Where a student has not completed a course or courses in respect of which an offence has not been committed, withdrawal from the course or courses without academic penalty shall be allowed;

Expulsion

- i) recommendation of expulsion from the University. The Tribunal has power only to recommend that such a penalty be imposed. In any such case, the recommendation shall be made by the Tribunal to the President for a recommendation by him or her to the Governing Council. Expulsion shall mean that the student shall be denied any further registration at the University in any program and his or her academic record and transcript shall record permanently this sanction. Where a student has not completed a course or courses in respect of which an offence has not been committed, withdrawal from the course or courses without academic penalty shall be allowed. If a recommendation for expulsion is not adopted, the Governing Council shall have the power to impose such lesser penalty as it sees fit.

Cancellation of degree

- (j) (i) recommendation to Governing Council for cancellation, recall or suspension of one or more degrees, diplomas or certificates obtained by any graduate; or
 - (ii) cancellation of academic standing or academic credits obtained by any former student who, while enrolled, committed any offence which if detected before the granting of the degree, diploma, certificate, standing or credits would, in the judgement of the Tribunal, have resulted in a conviction and the application of a sanction sufficiently severe that the degree, diploma, certificate, standing, credits or marks would not have been granted.

Recording sanction

2. The jury shall have the power to order than any sanction imposed by the Tribunal be recorded on the student's academic record and transcript for such length of time as the jury considers appropriate.

Publishing jury decision and sanction

3. The Tribunal may, if it considers appropriate, report any case to the Provost who may publish a notice of the decision of the Tribunal and the sanction or sanctions imposed in the University newspapers, with the name of the student withheld.

Code for Non-Academic Offences

1. Nothing in this Code shall be construed to prohibit peaceful assemblies and demonstrations, lawful picketing, or to inhibit free speech as guaranteed in the Code of Academic Behaviour.
2. The following constitutes conduct deemed injurious to the peaceable functioning of College life:
 - i. **Disruption**
No person shall, by action, threat, or otherwise, knowingly disrupt College activities. College activities include but are not limited to teaching, research, studying, administration, public service.
 - ii. **Unauthorized Entry and/or Presence**
No person shall, contrary to express instruction(s) of a person or persons authorized to give such instruction(s), or with intent to damage, destroy, or steal the lands, grounds and buildings of Erindale College or any property on the lands and grounds or in the buildings of Erindale College that is not his/her own, or without just cause knowingly enter or remain in any College building, facility, room or office. Facilities include but are not limited to the following: parking lots, athletic fields and all other campus areas.
 - iii. **Theft, Damage and Destruction of Property**
 - a) No person shall knowingly destroy or otherwise damage College premises nor shall any person knowingly take, destroy or otherwise damage any property on or within College premises that is not his/her own.
 - b) No person, in any manner whatsoever, shall knowingly deface the inside or outside of any building of the College, nor deface the grounds or any property that is not his/her own.
 - iv. **Physical Abuses, Dangerous Activity and Harassment**
 - a) No person shall assault another person, threaten any other person with bodily harm or damage to such person's property or knowingly, and without just cause, cause any other person to fear bodily harm or fear damage to his or her property.

- b) No person shall knowingly create a condition which unnecessarily endangers or threatens the health, safety or well-being of other persons or threatens the damage or destruction of property.
 - c) No person shall subject any other person to verbal or physical abuse or harassment on the basis of race, creed, colour, national origin, citizenship, religious or political affiliation or belief, sex, sexual orientation, marital status and/or family relationship, and place of residence, nor shall any one discriminate against any other person on the basis of race, creed, colour, national origin, citizenship, religious or political affiliation or belief, sex, sexual orientation, marital status and/or family relationship, and place of residence.
- v. **Possession of Stolen Effects or Property**
No person, knowing the effects to have been stolen shall possess College effects or possess on College premises any property stolen from any other member of the College community.
- vi. **Unauthorized Use of College Facilities, Equipment, or Services**
No person shall knowingly use any College facility, equipment or service contrary to express instruction(s) of a person or persons authorized to give such instruction(s), or without just cause.
- vii. **Violation of Parking and Traffic Regulations**
No person shall knowingly violate the parking and traffic regulations of Erindale College as approved by Erindale College Council.
- viii. **Knowingly or Maliciously Bringing a False Charge Under this Code**
No person shall knowingly or maliciously bring a false charge against any member of the College Community under this Code.
- ix. **Counselling or Knowingly Aiding a Person in the Commission of an Offence**
No person shall counsel or aid a person in the commission of an offence.
- xi. **Refusal to Comply with the Sanctions of the Appeals Board**
No person found guilty of an offence shall refuse to comply with a sanction or sanctions imposed by the Appeals Board.
3. Conduct which constitutes a breach of the Criminal Code or other statute, or which would give rise to a civil claim or action, shall ordinarily be dealt with by the appropriate criminal or civil court. However, in cases in which criminal or civil proceedings would not be appropriate or would not adequately protect the good order and proper functioning of the College's programmes and activities, the safety, rights or property of its members or visitors, or the property of the University, proceedings may be brought under Erindale College's disciplinary code. Nonetheless, internal proceedings shall be undertaken in addition to proceedings in the external courts only in serious cases where considered essential in the circumstances.
- Rules and Procedures Governing Non-Academic Offences Involving Students**
1. The procedures of Erindale College regarding non-academic discipline shall be governed by the principles and rules of natural justice.
 2. Reason and moral suasion shall be used to resolve issues of individual behaviour before resort is made to formal disciplinary procedures.
 3. It is the responsibility of the Principal to enforce discipline in all matters relating to the College, its buildings, grounds and effects.
In cases in which the Principal of Erindale College has reason to believe that a non-academic offence may have been committed, the Principal or a delegated officer of the college will undertake an investigation. If the Principal or his/her delegate then concludes that a student or group of students may be guilty of an offence then he/she or his/her delegate will give notice in writing to the student or group of students of the nature and source of the charge and will provide them with an opportunity to respond in a hearing.
 4. The Principal will designate a member of the College as College Hearing Officer for purposes of this Code.
The College Hearing Officer will conduct a hearing on each charge and will rule on the guilt of the student(s) and may impose the following sanction(s) provided they do not directly affect a student's academic standing in any course or programme.

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- i. Reprimand the accused;
 - ii. Require the accused to make restitution for any damage caused, or otherwise to rectify any situation he or she created or helped to create;
 - iii. Place the accused on conduct probation for a period not exceeding one year; or if the accused is on conduct probation and violates its terms, impose any other relevant sanction here specified;
 - iv. Require security for good behaviour not exceeding \$100;
 - v. Levy a fine not exceeding \$100;
 - vi. Deny the accused access to specified College premises for a period not exceeding one year. College premises include but are not limited to the library, computer centre, the residences, the College pub, the athletic centre;
 - vii. Combine any of the above where appropriate.
5. The authority for appeals in matters of non-academic discipline is vested in the Appeals Board.
 6. An appeal must be submitted in writing within one week of the notification by the College Hearing Officer of the imposition of a sanction to the Registrar of Erindale College, as Convenor of the Appeals Board, who shall arrange for a formal hearing by the Appeals Board with respect to the stated grounds of appeal.
 7. The Appeals Board shall consist of the Registrar of Erindale College, as Chair, two faculty members and two student members.

The faculty members shall be selected by lot from a panel of six faculty members of the Erindale College Council chosen annually by the Council at its first meeting of each academic year. The student members shall be selected by lot from a panel of six members chosen each year by the Erindale College Council at its first meeting of the academic year.
 8. Hearings may be held in private at the request of the appellant.
 9. For the Appeals Board to confirm guilt or alter a penalty on appeal, a vote of a simple majority plus one shall be required.
 10. A further appeal to that provided in Sections 5 and 6 above may be taken by students on whom a penalty has been imposed from a conviction at the College level, upon a question that is not one of fact alone, or from the penalty itself. Such appeals shall be heard by a body established for this purpose by the Governing Council.
 11. With the approval of the College Council the amounts levied for security and fines may be adjusted from time to time.

University Grading Practices Policy

The purpose of the University Grading Practices Policy is to ensure:

- (a) that grading practices throughout the University reflect appropriate academic standards;
- (b) that the evaluation of student performance is made in a fair and objective manner against these academic standards;
- (c) that grade scales, while remaining suited to the particular circumstances of every division, are compatible with each other;
- (d) that the academic standing of every student can be accurately assessed even when courses have been taken in different divisions of the University and evaluated according to different grade scales.

Application of Policy

The Policy applies to all individuals and committees taking part in the evaluation of student performance in degree, diploma, and certificate credit courses (hereafter referred to as courses), excluding courses in the School of Graduate Studies.

Amendment to Policy

Amendments to the Policy shall be recommended to the Academic Board.

Changes to the divisional regulations on grading practices shall be forwarded to the Committee on Academic Policy and Programs.

Distribution of Policy

A copy of the Grading Practices Policy as well as the description of the grade scale used in a division and the substance of divisional regulations indicated in Part II of this Policy shall be published in the Calendar of the division. Similarly a copy shall be given to all students upon initial registration and to all instructors and others, including teaching assistants, involved in the evaluation of student performance.

The Policy is in three parts: Part I deals with grades, Part II outlines grading procedures to be adhered to in divisional regulations adopted as part of this Policy, and Part III is an administrative appendix available upon request from the Office of the Vice-President and Provost.

PART I: GRADES

Meaning of Grades

Grades are a measure of the performance of a student in individual courses. Each student shall be judged on the basis of how well he or she has command of the course materials.

- 1.1 A grade assigned in a course is not an assessment of standing within a program of studies. To determine the requirements for credit and standing in a program of studies, the academic regulations of the division in which the program is offered should be consulted.
- 1.2 Grades for each course shall be assigned with references to the following meanings (which may be expanded in the divisional regulations under Part II):
Excellent
Good
Adequate
Marginal
Inadequate
Wholly Inadequate.

Grade Scales

- 1.3 Once a judgment on the performance of the student has been made, the following grade scales may be used in accordance with divisional practice:
 - (a) a compatible letter grade scale,
 - (b) the numerical scale of marks; and/or
 - (c) the scales Honours/Pass/Fail and Credit/No Credit.

Grades vs. Scores

- 1.4 Grades should always be based on the approved grade scales. However, students may find that on any one evaluation they may receive a numerical or letter mark that reflects the score achieved on the test or essay. The cumulative scores may not be directly identified with the final grade. Grades are final only after review by the divisional review committee described below.
- 1.5 A table of correspondence and a translation table are defined in the Appendix for each of the letter grade scales referred to in 1.3(a) in order to allow the conversion, when necessary, of a grade assigned from one scale to the corresponding grade in another. It should be noted that these tables are not to be used to translate a score to a grade directly.

Grade Reporting

- 1.6 Only one *letter* scale, as referred to in 1.3(a) may be used in a division for assigning grades, but the numerical scale and the H/P/FL and CR/NCR scales, as referred to in 1.3(b) and (c) respectively, may also be used. The grades assigned in a course, however, must all be from the same scale.
- 1.7 Grades in each course shall be assigned according to the practice of the division offering the course.

Grades in each course shall be reported according to the practice of the division administering the program in which the student is registered (the reporting division).

- (a) Grades shall be reported as assigned when the division offering the course is also the reporting division, when the offering and reporting divisions use the same grade scale, and when the grades are assigned from the H/P/FL or CR/NCR scales.
 - (b) In all other cases, grades shall be reported as converted to the scale used by the reporting division, and the conversion shall be made according to the tables of correspondence and translation tables defined in the Appendix.
 - (c) With the exception of H/P/FL and CR/NCR scales, two different letter grade scales may not be used on the same transcript.
 - (d) A grade not reported in the form originally assigned by the offering division must on request be made available to the student in that form by the reporting division.
- 1.8 All non-grade symbols used in reporting course results must correspond to the University-wide standard. A list of the currently approved symbols and their meanings is given in the Appendix A.2.
- 1.9 The information in grade reports and transcripts must be communicated to the user, whether within or outside the University, in a clear and meaningful way. To that end, transcripts issued by every division of the University must indicate the relationship between the divisional grade scale, the grade meanings, the basic letter grade scale, whether refined or unrefined by plus and minus signs, and the scale or numerical marks as well as the translation table. A list of non-grade symbols and meanings shall also be included in the transcript.

PART II: GRADING PROCEDURES

Approval of Grades

Grades shall be recommended by the instructor to the chair or division head. The grades shall then be reviewed and approved following the divisional review procedure. Grades shall not be reported or released to students as official until the divisional review procedure has been carried out. The divisional review constitutes final approval of grades except when grades are changed on appeal.

II.1 Divisional Review Committee

In each division, a committee chaired by the divisional head or a designate, and where appropriate, an additional committee structure, with the chairs (or their designates) of departments or other academic units of divisions serving as chairs, shall:

- (a) administer the implementation of the University Grading Practices Policy at the divisional level and oversee the general consistency of grading procedures with the division;
- (b) formulate, approve, and administer the University's specific regulations concerning the grade scale or scales to be used, the assignment of non-grade symbols for course work, classroom procedures and approved methods of evaluation;
- (c) review, adjust and approve course grades recommended by instructors. The grades recommended for any individual student in the professional faculties may be adjusted according to his or her performance in the course or program as determined by the committee. *The divisional committee has the final responsibility for assigning the official course grade.*

II.2 Classroom Procedures

To ensure that the method of evaluation in every course reflects appropriate academic standards and fairness to students, divisional regulations governing classroom procedures must be consistent with the practices below.

- (a) As early as possible in each course (and no later than the division's last date for course enrolment) the instructor shall make available to the class, and shall file with the division or department, the methods by which student performance shall be evaluated. This should include whether the methods of evaluation shall be essays, tests, examinations, etc., the relative weight of these methods in relation to the overall score, and the timing of each major evaluation.
- (b) After the methods of evaluation have been made known, the instructor may not change them or their relative weight without the consent of at least a simple majority of the students enrolled in the course. Any changes shall be reported to the division or the department.
- (c) Student performance in a course shall be assessed on more than one occasion. No one essay, test, examination, etc. should have a value of more than 80% of the grade. Criteria for exemption may be determined by the division.

- (d) In courses that meet regularly as a class there shall be an examination (or examinations) conducted formally under divisional auspices and worth (alone or in the aggregate) at least one-third of the final grade. Criteria for exemption may be determined by the division. The relative value of each part of an examination shall be indicated to the student. In the case of a written examination, the value shall be indicated on the examination paper.
- (e) Commentary on assessed term work and time for discussion of it shall be made available to students.
- (f) At least one piece of term work which is a part of the evaluation of a student performance, whether essay, lab report, review, etc., shall be returned to the student prior to the last date for withdrawal from the course without academic penalty.
- (g) Grades shall be recommended by the instructor in reference to the approved grade scales on the basis of each student's overall performance.

In formulating their own regulations divisions may add to items (a) to (g) and may adopt fuller or more specific provisions, for example in place of such terms as "a simple majority" (b), "one-third of the final grade" (d), or in particularizing the evaluation methods referred to in (a) and (b).

II.3 Procedures in the Event of Disruptions

Principles

The following principles shall apply in the event of disruption of the academic program:

- (i) The academic integrity of academic programs must be honoured; and
- (ii) Students must be treated in a fair manner recognizing their freedom of choice to attend class or not without penalty.

Procedures

- (a) The Vice-President and Provost, or the Academic Board, shall declare when a disruption of the academic program has occurred. The Provost shall take steps to inform the University community at large of the changes to be implemented, and will report to the Committee on Academic Policy and Programs regarding the implementation of the procedures and changes to the status of the academic programs.
- (b) Individual instructors or multi-section coordinators responsible for courses that are disrupted shall determine, as the disruption proceeds, whether any changes to classroom procedures are needed to complete the course.

- (c) Changes to the classroom procedures should, where possible, first be discussed with students prior to the class in which a vote of the students present on the proposed changes is to be taken. Changes agreed upon by consensus should be forwarded to the department or division with a report on the attendance at the class where the vote was taken.
- (d) Where consensus on changes has not been arrived at, or where a vote is not feasible, the instructor, after the class discussion, will provide the division head or chair of the department in multi-departmental faculties, with his or her recommendation, along with the results of any classroom votes. The chair or division head shall then make a decision.
- (e) Where classes are not able to convene, the instructor, with the prior approval of the chair in multi-departmental faculties or the division head, shall make changes deemed necessary to the classroom procedures. In the absence of the instructor such changes will be made by the divisional head and require the approval of the Provost. Where courses are to be cancelled, approval of the divisional council is required. If the divisional council cannot meet, approval of the division head, or in the absence of the division head, the approval of the Provost, is required.
- (f) Students must be informed of changes to classroom procedures. This may be done by circulating the changes in writing to the class, posting in the departmental and faculty offices, reporting to the divisional council, as well as listing in the campus press. Should classes resume students must be informed, at class, of any changes made during the disruption.
- (g) Where changes to the classroom procedures are made, students who do not wish to complete the course under the revised procedures may withdraw without academic penalty. This must be done prior to the last day of classes.
- (h) Where students have not attended classes that are meeting, they nonetheless remain responsible for the course work and meeting course requirements. However, where possible, reasonable extension of deadlines for the course requirements, or provision of make-up tests shall be made and reasonable alternative access to material covered should be provided.

- (i) A student who feels, owing to his or her special circumstances, that changes to the classroom procedure have unreasonably affected his or her grade may appeal the grade following the procedures as set out in each division.

II.4 Assessment in Clinical and Field Settings

Divisions may make reasonable exemptions to the classroom procedures described above in circumstances such as field or clinical courses where adherence to these procedures is not possible. Nevertheless, it is obligatory that the assessment of the performance of students in clinical or field settings should be fair, humane, valid, reliable and in accordance with the principles enunciated in the University Grading Practices Policy. Accordingly, where a student's performance in a clinical or field setting is to be assessed for credit, the evaluation must encompass as a minimum:

- (a) a formal statement describing the evaluation process, including the criteria to be used in assessing the performance of students and the appeal mechanisms available. This statement should be available to all students before or at the beginning of the clinical or field experience;
- (b) a mid-way performance evaluation with feedback to the student;
- (c) written documentation of the final assessment.

In addition, for such clinical and field experiences, divisions must ensure that:

- (d) clinical and field assessors are fully informed regarding University, divisional and course policies concerning evaluation procedures, including the specific assessment procedures to be applied in any particular field or clinical setting.

Any exception from the above would require a divisional request with explanation for approval by the Governing Council.

II.5 Grade Review and Approval Process

The following principles and procedures shall govern the grade review and approval process.

- (a) The distribution of grades in any course shall not be predetermined by any system of quotas that specifies the number or percentage of grades allowable at any grade level.
- (b) However, a division may provide broad limits to instructors setting out a reasonable distribution of grades in

the division or department. Such broad limits shall recognize that considerable variance in class grades is not unusual. The division may request an explanation of any grades for a course that exceed the limits and hence appear not to be based on the approved grade scales or otherwise appear anomalous in reference to the Policy. It is understood that this section shall only be used when the class size is thirty students or greater. Each division shall make known in the divisional Calendar the existence of any such limits.

- (c) The criterion that the Divisional Review Committee shall employ in its evaluation is whether the instructor has followed the University Grading Practices Policy. The Review Committee shall not normally adjust grades unless the consequences of allowing the grades to stand would be injurious to the standards of the University, or the class in general.
- (d) Membership on the Divisional Review Committee may include students but should not include members of the divisional appeals committee(s).
- (e) Where grades have been adjusted by a divisional committee, the students as well as the instructor shall be informed. On request, the students or the instructor shall be given the reason for the adjustment of grades, a description of the methodology used to adjust the grades, and a description of the divisional appeal process.
- (f) Where a departmental review committee changes course grades, the faculty office shall be so informed. Having done so, the faculty office shall relay this information, upon request, to the students or the instructor with a description as to the reason for the change and the methodology used.
- (g) Past statistical data, including drop-out rates, mean arithmetic average, etc. should be provided to the Divisional Review Committee as background information where available. The committee will not use this information exclusively to judge whether a specific grades distribution is anomalous. Rather, the information should provide part of the basis for an overall review of grades in a division.
- (h) Where class grades have been changed, or when the Divisional Review Committee had reservations about the grades, the issue will be taken up with the instructor by the division or department head, with a view to ensuring that the Grading practices Policy is followed in future.

Appeal Procedure

Every division shall establish divisional appeal procedures. Students may appeal grades according to the procedures established for that purpose in the division. The appeal may be made whether marks have been altered by the review process or not. These procedures shall be outlined in the divisional Calendar, and available upon request at the faculty or registrar's office.

II.6 Student Access to Examination Papers

- (a) All divisions should provide access to copies of the previous year's final examination papers and other years' papers where feasible. Exemptions may be granted by an appropriate committee of the division or department.
- (b) All divisions should provide students with the opportunity within a reasonable time to review their examination paper where feasible. A recovery fee should be set to cover administrative costs including photocopying.
- (c) All divisions should provide, in addition to the customary re-reading of papers and the re-checking of marks, the opportunity for students to petition for the re-reading of their examination where feasible. A cost recovery fee should be set and returned where appropriate.

II.7 Conflict of Interest

Where the instructor or a student has a conflict of interest, or is in a situation where a fair and objective assessment may not be possible, this should be disclosed to the chair or division head who shall take steps to ensure fairness and objectivity.

The Calendar

The Erindale Calendar serves as a counselling guide and statement of the most important rules and regulations for students seeking to obtain the degrees of Bachelor of Arts, Bachelor of Science or Bachelor of Commerce from the University of Toronto through Erindale College.

Each department offering courses at Erindale has included a list of its academic staff, an introductory essay, and details of the programmes which it sponsors. When selecting courses, the student should read these essays, as well as the description of courses offered, and seek advice from the College Registrar and from Departmental academic counsellors. Particular attention should be paid to exclusions, prerequisites and corequisites. Students who wish to have such requirements waived, or who have equivalent qualifications, must consult the department offering the course.

All students should refer to the list of Sessional Dates so as to avoid incurring academic or financial penalties and are urged to read the sections entitled Academic Status and Degree Requirements as these state concisely what is required in order to qualify for the degree.

Calendar Supplements

Two supplements to the Calendar are issued: one in June and the other in September in time for the Winter Session registration week. They contain specific instructions for registration and enrolment, and detailed timetable and scheduling information for the winter session. The information they contain is just as important as that in this Calendar.

Fees Information Booklet

This publication, which contains information on academic and incidental fees, payment procedures and refunds, is sent to each student before registration.

Summer Session Information

The list of course offerings for Summer Session is available in February.

The Erindale College Awards Bulletin

Provides information on Government financial assistance, scholarships, medals, prizes and bursaries. A copy may be obtained from the Awards and Financial Aid Office, Room 3095, South Building, and the Registrar's Office, Room 2122, South Building.

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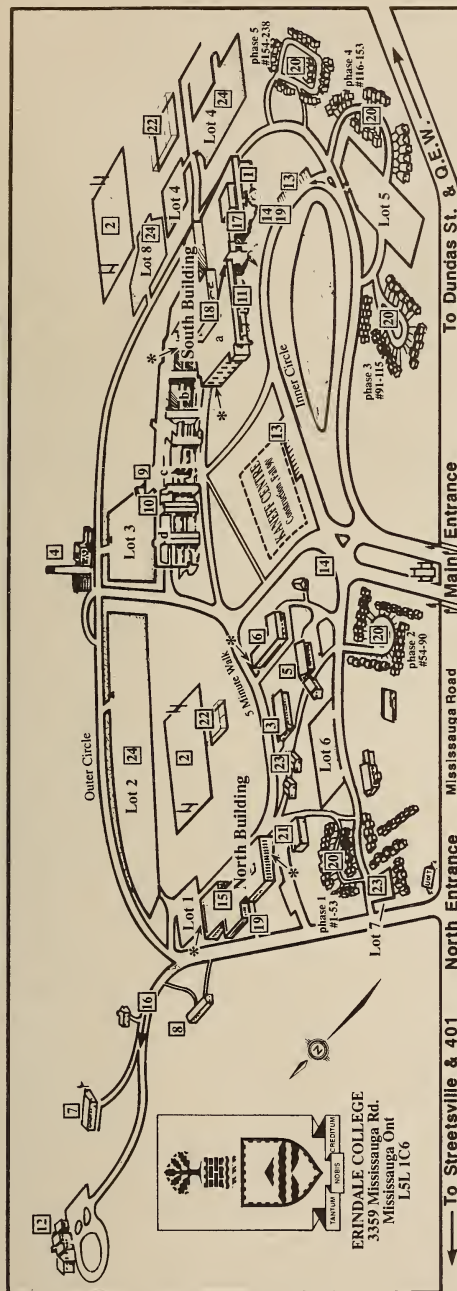
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ERINDALE COLLEGE

UNIVERSITY OF TORONTO IN MISSISSAUGA



ERINDALE COLLEGE
3359 Mississauga Rd.
Mississauga Ont
L5L 1C6

- | ← To Streetsville & 401 | North Entrance | Mississauga Road | Main Entrance | To Dundas St. & O.E.W. |
|--|--|---|--|------------------------|
| <ol style="list-style-type: none"> 1. Art Gallery 2. Athletics Fields 3. Blind Duck (Pub) 4. Central Utilities Plant 5. Colman Place: Residence & Conference Office CFRE Radio 6. Crossroads Building: rooms=two digit #s. (ie, 10)
ECSU
Dean-Social Services | <ol style="list-style-type: none"> 7. Geology Lab 8. Geomorphology Lab 9. Greenhouse 10. J. Turzo Wilson Research 11. Wing and Dean-Sciences 12. Library 13. Lislehurst 14. Metered Parking 15. Mississauga Transit Bus Stops 16. North Building: rooms=three digit #s. (ie, 100)
EPUS Office
Dean-Humanities
Business Services 17. Registrar's Office | <ol style="list-style-type: none"> 18. South Building: rooms=four digit #s. (ie, 1000)
Finance Office & Facilities Bank of Montreal Book Store Campus Police Career Centre Council Chamber Faculty Club Financial Aid/Student Awards Health Services Meeting Place Principal's Office/Campus Relations Dept. Shipping & Receiving Spigel Hall (cafeteria) | <ol style="list-style-type: none"> 19. St. George Campus Bus Stops 20. Student Residences 21. Studio Theatre 22. Tuck Shop 23. Erindale Tuck Shop 24. Visitors Parking Lot #2 Lot #4 Lot #8 a. The Centre for Land Information Systems b. The Centre for Research in Human Development c. The Centre for Plant Biotechnology d. The Chemical Sensors Group * Wheelchair Access | |

